FEDERAL RESERVE statistical release



For release at 9:15 a.m. (EDT)

G.17 (419)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.6 percent in September following a gain of 0.4 percent in August. For the third quarter as a whole, industrial production rose at an annual rate of 2.3 percent. Manufacturing output edged up 0.1 percent in September following a gain of 0.5 percent in August, and increased at an annual rate of

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

	2007=100 Percent change												
	2013						2013						Sept. '12 to
Industrial production	Apr. ^r	May ^r	June ^r	July ^r	Aug."	Sept. ^p	Apr. ^r	May ^r	June ^r	July ^r	Aug."	Sept. ^p	Sept. '13
Total index	98.8	98.9	99.1	99.1	99.5	100.0	3	.1	.2	1	.4	.6	3.2
Previous estimates	98.7	98.9 98.9	99.0	99.1 99.0	99.3 99.4	100.0	3	.1	.2	1 .0	.4	.0	5.2
Frevious estimates	90.7	96.9	99.0	99.0	99.4		5	.1	.1	.0	.4		
Major market groups													
Final Products	96.8	96.6	97.0	96.3	96.6	97.5	4	3	.5	8	.3	.9	2.4
Consumer goods	94.2	93.9	94.3	93.5	93.7	94.4	6	3	.3	8	.2	.8	2.2
Business equipment	102.3	102.2	102.8	102.0	102.5	103.8	0.	2	.6	8	.5	1.2	3.7
Nonindustrial supplies	87.9	88.0	88.1	88.3	88.5	89.1	5	.1	.1	.2	.2	.7	3.5
Construction	81.0	80.6	81.2	81.6	81.8	82.3	-1.1	5	.7	.5	.3	.6	5.6
Materials	104.5	105.0	105.0	105.4	106.0	106.3	1	.5	.0	.4	.5	.3	3.7
Major industry groups													
Manufacturing (see note below)	95.2	95.4	95.7	95.4	95.9	96.0	3	.3	.3	4	.5	.1	2.6
Previous estimates	95.1	95.4	95.7	95.3	96.0		4	.2	.3	4	.7		
Mining	116.8	117.6	119.0	120.9	121.6	121.9	.8	.7	1.2	1.6	.6	.2	6.6
Utilities	102.1	100.3	98.3	98.1	97.3	101.6	-1.6	-1.8	-2.0	2	9	4.4	2.5
						2							Capacity
		1000	1000	1001	Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									~
	1972-	89	91	95	2009	2012	2013		. .		. r	C D	Sept. '12 to
Capacity utilization	2012	high	low	high	low	Sept.	Apr. ^r	May ^r	June	July ^r	Aug. ^r	Sept. ^p	Sept. '13
Total industry	80.2	85.2	78.8	85.0	66.9	77.2	77.9	77.9	77.9	77.7	77.9	78.3	1.8
Previous estimates	80.2	05.2	/0.0	65.0	00.9	11.2	77.8	77.8	77.8	77.6	77.8	78.5	1.0
1 revious estimates							//.0	//.0	//.0	77.0	//.0		
Manufacturing (see note below)	78.7	85.6	77.3	84.6	64.0	75.3	75.9	76.0	76.2	75.8	76.1	76.1	1.6
Previous estimates	/0./	05.0	11.5	04.0	04.0	15.5	75.9	75.9	76.1	75.7	76.1	/0.1	1.0
Mining	87.3	86.3	83.9	88.6	78.3	88.0	87.8	88.1	88.9	89.9	90.1	90.0	4.2
Utilities	86.2	92.9	84.3	93.3	78.6	78.1	79.9	78.5	76.8	76.7	75.9	79.3	1.0
Cuntes	00.2	, , , , , , , , , , , , , , , , , , , ,	04.5	75.5	/0.0	70.1	17.7	70.5	/0.0	70.7	15.7	17.5	1.0
Stage-of-process groups													
Crude	86.3	87.7	84.4	89.7	76.4	86.4	86.2	86.9	87.2	87.9	88.1	87.9	3.3
Primary and semifinished	81.0	86.5	78.0	87.9	64.4	74.8	76.4	76.1	75.7	75.7	75.9	76.6	.6
Finished	77.1	83.4	77.3	80.6	66.8	76.0	75.8	75.8	76.3	75.4	75.6	75.7	2.7
r Revised n Preliminary			1	1	1	1	I						L

r Revised. p Preliminary.

Note. The statistics in this release cover output, capacity, and capacity utilization in the U.S. industrial sector, which is defined by the Federal Reserve to comprise manufacturing, mining, and electric and gas utilities. Mining is defined as all industries in sector 21 of the North American Industry Classification System (NAICS); electric and gas utilities are those in NAICS sectors 2211 and 2212. Manufacturing comprises NAICS manufacturing industries (sector 31-33) plus the logging industry and the newspaper, periodical, book, and directory publishing industries. Logging and publishing are classified elsewhere in NAICS (under agriculture and information, respectively), but historically they were considered to be manufacturing and were included in the industrial sector under the Standard Industrial Classification (SIC) system. In December 2002 the Federal Reserve reclassified all its industrial output data from the SIC system to NAICS.

October 28, 2013

1.2 percent for the third quarter. Production at mines moved up 0.2 percent in September and advanced at an annual rate of 12.9 percent for the third quarter. The output of utilities rose 4.4 percent in September following declines in each of the previous five months. The level of the index for total industrial production in September was equal to its 2007 average and was 3.2 percent above its year-earlier level. Capacity utilization for total industry moved up 0.4 percentage point to 78.3 percent, a rate 1.9 percentage points below its long-run (1972–2012) average.

Market Groups

The production of consumer goods increased 0.8 percent in September but declined at an annual rate of 1.1 percent for the third quarter as a whole. The index for durable consumer goods advanced 0.7 percent in September, as a gain in the output of automotive products more than offset declines in the production of home electronics; appliances, furniture, and carpeting; and miscellaneous goods. The output of durable consumer goods increased at an annual rate of 2.1 percent for the third quarter as a whole. The production of nondurables rose 0.9 percent in September. The increase was driven by a gain in the output of energy products, which moved up 3.9 percent, while the output of non-energy nondurables decreased 0.2 percent, a third consecutive monthly decline. Within non-energy nondurables, the indexes for foods and tobacco and for chemicals both declined 0.3 percent. In contrast, the output of clothing increased 1.6 percent and was 4.5 percent above its September 2012 level. The output of nondurable consumer goods decreased at an annual rate of 2.0 percent for the third quarter as a whole.

The output of business equipment moved up 1.2 percent in September and increased at an annual rate of 1.2 percent for the third quarter as a whole. All major categories of business equipment advanced in September. The production of transit equipment increased 2.3 percent and was 5.5 percent above its year-earlier level; the output of industrial and other equipment rose 1.2 percent in September, its first monthly gain since June; and the index for information processing equipment edged up 0.1 percent in September following an increase of 1.2 percent in August. The overall index for business equipment in September was 3.7 percent above its year-earlier level.

The output of defense and space equipment rose 0.4 percent in September and was 1.8 percent above its September 2012 level. For the third quarter, the index increased at an annual rate of 4.2 percent.

Among nonindustrial supplies, the output of construction supplies moved up 0.6 percent in September, its fourth consecutive monthly increase, and advanced at an annual rate of 4.8 percent in the third quarter. The production of business supplies rose 0.7 percent in September.

The output of materials to be processed further in the industrial sector increased 0.3 percent in September and advanced at an annual rate of 4.2 percent for the third quarter. The gain in September was due to a 1.0 percent increase in the production of energy materials. For the third quarter as a whole, the index for energy materials moved up at an annual rate of 7.5 percent. The output of durable materials was unchanged in September following a gain of 1.2 percent in August. The production of equipment parts declined 0.2 percent in September, while the output of consumer parts and of other durable materials both edged up 0.1 percent. The production of nondurable materials moved down 0.4 percent in September; the indexes for textile materials and chemical materials both declined, and the index for paper materials was unchanged.

Industry Groups

Manufacturing output edged up 0.1 percent in September and moved up at an annual rate of 1.2 percent in the third quarter. At 96.0 percent of its 2007 average, manufacturing production in September was 2.6 percent

above its year-earlier level. The factory operating rate was unchanged in September at 76.1 percent, a rate 2.6 percentage points below its long-run average.

The production of durable goods moved up 0.5 percent in September and advanced at an annual rate of 2.7 percent in the third quarter. The output of motor vehicles and parts increased 2.0 percent in September following a gain of 5.2 percent in August. The index for machinery rose 1.5 percent in September, and smaller increases were recorded in the production of wood products, of primary metals, of aerospace and miscellaneous transportation equipment, and of miscellaneous goods. Declines were recorded in the output of furniture and related products; computer and electronic products; electrical equipment, appliances and components; and nonmetallic mineral products. Capacity utilization for durable goods manufacturing was 76.4 percent in September, a rate 0.6 percentage point below its long-run average.

The output of nondurables decreased 0.3 percent in September, for a third consecutive monthly decline, and edged down at an annual rate of 0.3 percent for the third quarter. The indexes for several nondurable goods categories declined in September, with the largest decrease recorded in printing and support, which moved down 1.1 percent. The production of apparel and leather, of petroleum and coal products, and of plastics and rubber products all rose. Capacity utilization for nondurable manufacturing was 77.0 percent, a rate 3.7 percentage points below its long-run average.

Production in the non-NAICS manufacturing industries (logging and publishing) increased 0.8 percent in September and moved up at an annual rate of 0.8 percent for the third quarter as a whole.

Mining output increased 0.2 percent in September, its sixth consecutive monthly increase. Capacity utilization for mining edged down 0.1 percentage point in September as gains in capacity outpaced the increase in output. At 90.0 percent, the utilization rate for mines was 2.7 percentage points above its long-run average. The output of utilities advanced 4.4 percent in September, and the operating rate for utilities rose 3.4 percentage points to 79.3 percent, a rate 6.9 percentage points below its long-run average.

Capacity utilization rates in September for industries grouped by stage of process were as follows: At the crude stage, utilization decreased 0.2 percentage point to 87.9 percent, a rate 1.6 percentage points above its long-run average; at the primary and semifinished stages, utilization rose 0.7 percentage point to 76.6 percent, a rate 4.4 percentage points below its long-run average; and at the finished stage, utilization edged up 0.1 percentage point to 75.7 percent, a rate 1.4 percentage points lower than its long-run average.

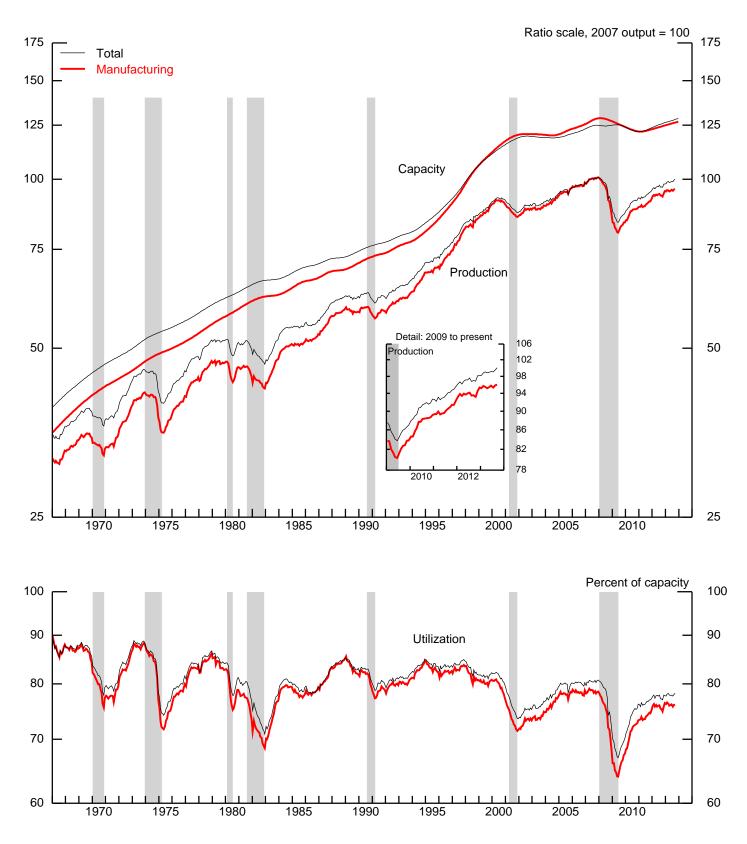
Rebasing of Gross Value of Products Series

With this release of the G.17, the comparison base year for the data in Table 9, Gross Value of Final Products and Nonindustrial Supplies, and in Table 10, Gross-Value-Weighted Industrial Production: Stage-of-Process Groups, was advanced to 2009 to conform to the comparison base year of the national income and product accounts issued by the Bureau of Economic Analysis.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
- 2. Industrial Production: Special Aggregates and Selected Detail; percent change
- 3. Motor Vehicle Assemblies
- 4. Industrial Production: Market and Industry Group Summary; indexes
- 5. Industrial Production: Special Aggregates and Selected Detail; indexes
- 6. Diffusion Indexes of Industrial Production
- 7. Capacity Utilization
- 8. Industrial Capacity
- 9. Gross Value of Final Products and Nonindustrial Supplies
- 10. Gross-Value-Weighted Industrial Production: Stage-of-Process Groups
- 11. Historical Statistics: Total Industry
- 12. Historical Statistics: Manufacturing
- 13. Historical Statistics: Total Industry Excluding Selected High-Technology Industries
- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

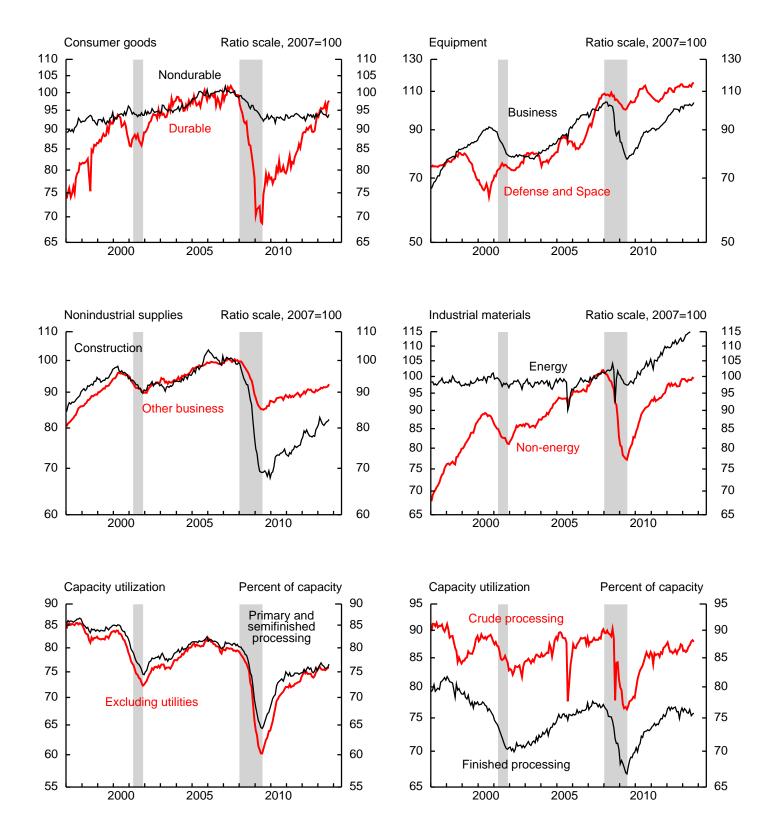
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).



1. Industrial production, capacity, and utilization

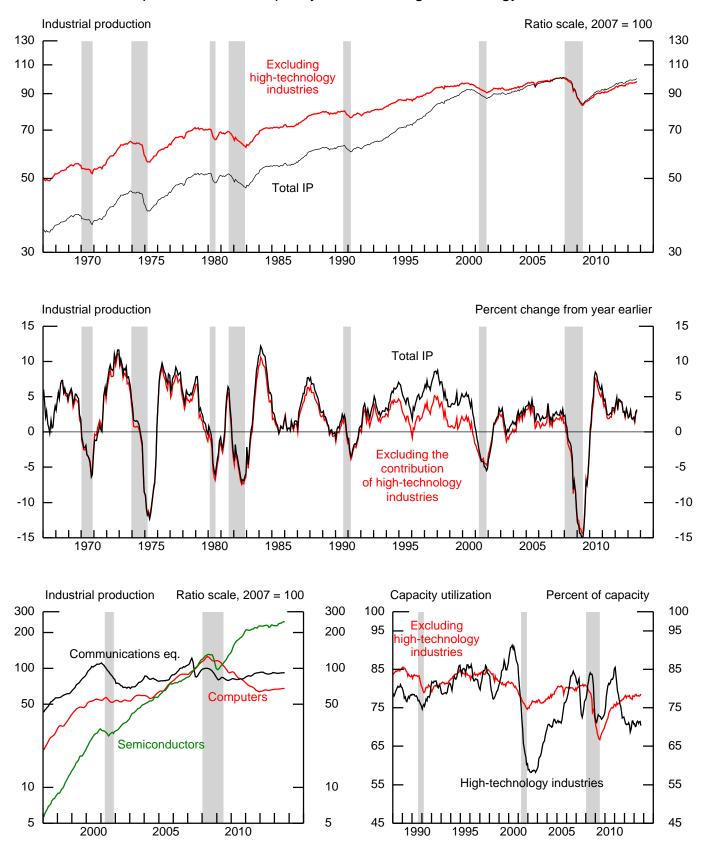
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

2. Industrial production and capacity utilization



Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

3. Industrial production and capacity utilization, high-technology industries



Notes: High-technology industries are defined as semiconductors and related electronic components (NAICS 334412-9), computers (NAICS 3341), and communications equipment (NAICS 3342). The shaded areas are periods of business recession as defined by the NBER.

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY Percent change, seasonally adjusted

Narker George Sector				rth quart urth quai		Ai	nnual rat	e			Montl	hly rate			Sept. '12
MARL T GOUTS Non-Net and noindivising supplies Non-	Item		2010	2011	2012		Q2r	Q3 ^p		May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p	to Sept. '1
Sind products and nonindiscip supplies 53.46 37 24 25 1 7 </td <td></td> <td>100.00</td> <td>6.2</td> <td>3.3</td> <td>2.8</td> <td>4.1</td> <td>1.1</td> <td>2.3</td> <td>3</td> <td>.1</td> <td>.2</td> <td>1</td> <td>.4</td> <td>.6</td> <td>3.2</td>		100.00	6.2	3.3	2.8	4.1	1.1	2.3	3	.1	.2	1	.4	.6	3.2
Consistor goods 27.14 3. 2.0 1.4 5.7 A. 1.1 6. 3. 3. 3. 3. 2.8 2.8 Autemuise produces 22.8 7.0 1.43 1.8 2.8 2.1 3. 1.3 2.5 7.1 3.3 1.8 2.2 3. 3. 3.8 3.7	MARKET GROUPS														
Durabé 5.81 2.3 7.9 6.4 1.3 2.8 7.1 7.8 7.3 7.8 1.3 7.3 7.8 7.4 7.8 7.8 7.3 7.8 7.4 7.8 7.8 7.3 7.8 7.3 7.6 7.4 7.8 7.3 7.5 7.4 7.4 7.8 7.3 7.5 7.5 7.3 7.5	and nonindustrial supplies	53.46	3.7	2.4	2.6	5.1	.7	.7	4	2	.4	5	.3	.8	2.7
Automosic products 2298 6 147 21 143 11.5 0 -3 7 16 4.7 4.5 18 Appriares, formine, carpeing 38 7 11 33 5.6 5.0 6.7 2.3 2.3 2.3 3.5 3.6 5.0 6.7 2.3 2.3 3.2 3.5 3.5 5.0 6.7 1.4 2.4 2.1 7.4 1.4 2.7 2.5 1.4 2.2 2.1 1.5 3.5 4.6 3.1 4.6 2.2 1.4 3.1 3.4 4.6 3.1 4.6 2.2 1.4 4.1 1.6 4.8 4.1 1.6 4.8 4.1 1.6 4.8 4.1 1.6 4.8 4.1 1.6 4.1 4.1 1.6 4.2 1.4 4.1 1.6 4.2 1.4 4.1 1.1 4.8 4.1 1.1 4.2 4.1 1.1 4.2 4.1	ods				1.4									.8	2.2
Ibune accromics. Appliances, formure, capering 1.4 20.0 5.7 1.8 2.2 4.5 1.6 2.7 5.2 3.5 3 5.5 Miscalinose goods 1.01 8.0 1.1 1.3 5.5 3.6 3.6 3.7 1.1 1.4 2.7 5.2 1.3 7.0 3.3 7.0	-													.7	9.5
Appliance, funiture, capeling 7. 1.1 3.3 5.6 3.0 6.7 1.1 1.2 2. 1.7 5.5 1.0 7.3 1.0 2.3 7.1 2.0 7.5 1.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 0.1 7.3 7.3 0.1 7.3<															12.9
Misediances goods 19 8.0 11 7.3 15.4 1.2 5.2 3.5 1.3 7.0 0 Non-energy 16.04 -8 1.0 -1 3.8 -2.7 -0 -7 -5 1.0 -7 -2.3 -3 -5 -9 Proots and Unseco 10 7 2.3 1.0 -2 1.4 -8 .4 -3 -3 -5 1.0 -7 2.3 1.04 -2 2.4 -8 .4 -3 -3 -4 -5 0.0 3 3 -1 -6 -5 3 -3 -8 -1.5 3 -5 -8 -1.5 3 -5 3 -3 -1 -6 -5 3 -3 -1 -2 0 0 10 -3 0 -2 1.0 1.0 -3 -3 -1 -1 1 1 1 1 1.0 1.0 1.0 1.0 </td <td></td> <td>6</td>															6
None energy 21.3 -2. 4 -1 37 -1.1 -20 -5 1 -3 -5 1 -3 -5 1 -3 -5 1 -3 -5 1 -7 -2 -2 -2 1 -3 0 -7 -3 -3 -3 1 1.6 -3 1.6 1.6 -3 1.6 1.6 -1.1 1.6															5.1
Non-energy 16.04 8 1.0 7 2.3 2.7 10 7 0 9 7 2 3.2 Choining fondes 3.00 1.11 2 1.3 2 3.2 1.1 2 3.1 2 3.1 2 3.1 4 0 2.3 1.4 4.4 9 1.4 4.5 1.3 3 3.3 4 1.3 1.4 1.3 1.3 3 1.3 4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 <th1.3< th=""> 1.3 1.3</th1.3<>	s goods														6.7
Jondsmidubaceo 9.11 7. 7. 2.3 7.0 5.3 1.1 1.6 2.0 1.4 8.4 4.3 3.5 <															8
Cloning Chemical products 20 11.4 4.8 2-4 15.9 7.3 9.0 2-7 1.4 2.9 1.4 4.9 1.2 1.1 4.2 3.9 2.5 3.5 1.1 4.2 3.9 2.6 1.1 4.2 3.9 2.6 1.1 4.2 3.9 3.1 6.4 2.9 3.6 1.1 4.2 3.9 3.6 3.0 3.5 1.5 1.1 4.3 3.9 3.6 4.3 </td <td>bhacco</td> <td></td> <td>-1.2</td>	bhacco														-1.2
Chemical products 4487 -31 31 -30 -2 31 -44 -5 -13 -5 -13 -5 -13 -5 -53 3 00 -5 13 04 14 84 85 50 13 04 14 14 84 85 54 44 14 84 85 14 14 14 94 14 04 14 14 04 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 <th1< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.6</td><td>4.5</td></th1<>														1.6	4.5
Energy 5.29 1.4 -1.1 -7 3.6 -4.7 -7 -1.8 -2.5 .8 -1.5 .9 Busines equipment 9.61 12.0 5.0 7.2 4.4 2.9 1.2 0 -2.1 6 8 5 1.0 2.3 Information processing 2.00 3.5 1.4 4.7 8.4.3 1 4.2 9 9 .1 4.2 0 1.0 3 0 1.0 2.0 0.1 1.2 0 1.2 0 1.2 0 1.2 0 1.2 0 1.2 0 1.2 0 1.1 0.5 0 2.0 1.1 0.5 0 1.4 0 1.1 0.5 0 0 1.0 0 0 1.0 0 0 1.0 0 1.0 0 0 1.0	oducts													3	2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1.36	-4.1	-1.4	-8.1	-4.5	-5.0	-5.0	.3	.0		6	5	.3	-2.3
Transit 2.10 11.4 6.5 13.6 2.2 10.8 -3.0 10.9 -3.9 -9.9 1.0 2.0 10.9 -3.9 -9.9 -1.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 -3.9 9.9 -9.9 1.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 1.0 2.0 1.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0 1.0 3.0 1.0 1.0 3.0 1.0 1.0 3.0 1.0		5.29	1.4	-1.1	.7	3.7	3.6	-4.7	7	-1.8	-2.5	.8	-1.5	3.9	3.3
Transit 2.16 114 6.5 136 2.2 108 -4.0 1.0 -3 9 2.9 1.0 2.3 Industrial and other 2.00 3.5 1.4 7.8 4.3 1.2 1.2 1.2 1.0 1.0 -5 -5 1.1 -2 0 1.0 -5 -5 1.1 -2 0 1.0 -7 1.2 0.1 0 1.0 -5 -5 1.1 -5 .5 1.1 -5 .7 .5 .3 .6 -1 0 1.0 .7 .5 .3 .6 -1 0 .7 .7 .7 1.4 2.8 1.5 1.4 2.2 1.3 .5 1.4 .7 .3 .3 4.6 .9 .4 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 </td <td>oment</td> <td>9.61</td> <td>12.0</td> <td>5.0</td> <td>72</td> <td>44</td> <td>2.9</td> <td>12</td> <td>0</td> <td>- 2</td> <td>6</td> <td>- 8</td> <td>5</td> <td>12</td> <td>3.7</td>	oment	9.61	12.0	5.0	72	44	2.9	12	0	- 2	6	- 8	5	12	3.7
Information processing Industrial and other 2.09 3.5 1.4 7.8 4.3 .1 2.4 2.9 9. 1.1 1.2 0.1 1.1 2.0 1.1 2.0 1.1 1.2 0.1 0.1 0.1 0.1 0.0 1.0 0.9 1.7 4.4 Construction supplies 4.6 8.1 2.7 4.2 1.4 2.4 4.5 4.8 2.3 7.1 4.2 1.8 2.3 7.1 4.2 4.1 5. 7.7 5. 3.6 6. 5.5 1.1 -2.5 7.1 7.5 7.5 3.6 6. 5. 7.7 5. 3.6 6. 7.8 7.5 <td></td> <td>2.3</td> <td>5.5</td>														2.3	5.5
Industriand other 5.36 16.4 6.0 4.5 7.3 1.0 3.0 -5 -5 1.1 -2.2 0.0 1.1 -2.2 0.0 1.1 -2.2 0.0 1.0 -0 0.0	ocessing													.1	3.7
Defense and space equipment 2.29 4.6 -2 4.8 -3.5 1.1 4.2 0 0 1.0 -9 1.7 4 Construction supplies Business supplies 4.16 8.1 2.7 4.2 1.5 7.5														1.2	2.9
Business supplies 9.47 2.3 7 1.4 2.8 1.8 2.3 -2 .4 .1 .1 .2 7 Materials 46.54 9.4 43 2.9 3.1 1.6 42. .1 .2 .1 .0 .1 .0 .7 .2 Durable 200 11.6 40 3.0 3.0 .1 1.4 2.0 5.8 1.2 2.1 1.3 0.6 .1 1.2 0.0 1.1 1.2 0.0 1.1 1.2 0.0 1.1 1.2 0.0 1.1 1.2 0.1 0.2 2.1 1.3 1.1 1.1 1.3 2.3 0.1 1.1 1.2 0.1 0.2 1.1														.4	1.8
Non-energy 29.02 11.6 40 30 3.5 -1.2 2.1 -3.6 -1 0 7 -2.2 0 0 7 -2.2 4.0 0 1 120 0.6 5 -7.6 5 -10 0.7 5 -10 -2.2 4.3 1.2 0.6 5 -7.7 5 -10 -2.2 4.3 1.5 -2.0 1.5 -2.0 1.5 -10 2.1 1.3 1.5 -2.0 1.5 -1.0 2.7 1.0 2.7 1.0 2.1 1.3 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.2 1.2 1.2 1.3 1.2 1.2 1.2 1.2 1.2 1.2	11													.6 .7	5.6 2.6
Non-energy 29.02 11.6 4.0 3.0 3.5 -1.2 2.1 -3.3 6 -1 0 7 -2.2 Durable 17.64 18.4 7.5 3.9 4.6 -9 4.1 -2.2 4.3 0. 1.2 0.0 2.2 4.3 0. 1.2 0.0 2.2 4.3 0. 1.2 0.0 2.0 2.2 2.1 2.0 0.0 1.1 1.2 0.0 4.6 -3.0 1.5 -2.2 0.0 1.1 <		AC 54	0.4	12	2.0	2.1	1.6	4.2	1	5	0	A	5	2	27
Durabe ^{**} 17,64 18,4 7,5 3,9 4,6 9 4,1 -2,2 4 0 1 1,2 0,0 Equipment parts 6,49 23,8 12,1 18 20,5 5,6 5,7 7,5 1,0 2,2 4,3 1,5 -2 0,1 1,1 5,0 -2,2 1,2 0,1 1,1 2,0 0,1 1,1 2,0 0,1 1,1 2,0 0,1 1,1 1,2 0,1 1,1 1,2 0,1 1,1 1,2 0,1 1,1 1,2 0,1 1,1 1,2 0,1 1,1 1,2 0,0															3.7
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Energy 17.51 5.9 4.8 2.7 2.2 6.2 7.5 2.2 3 3 1.1 1 1.0 INDUSTRY GROUPS 75.46 6.4 3.3 2.8 4.9 1 1.2 3 3 3 1.4 5.1 1.1 Manufacturing (MACS) 31-33 7.4 6.5 3.4 3.3 5.4 1.1 3 3 3 4 6 1.1 Manufacturing (MACS) 31-33 7.270 6.3 5.3 6.4 1.4 2.7 2 2.8 8.1 2.1 1.1 1.6 1.1 5.6 1.2 3.3 3.4 4.5 5.1 1.1 1.0 1.1 1.6 1.1 1.0 1.1 1.6 1.2 2.6 3.6 7.7 3.3 4.4 2.5 0.0 6.0 0.0 Mondracturing 333 5.78 2.12 8.4 2.00 1.6 1.1 1.0 5.5		1.98	.8	-1.3	-2.2	3.9	1	-1.4	6	1.5	5	5	.0	.0	1.5
INDUSTRY GROUPS 75.46 6.4 3.3 2.8 4.9 1 1.2 3 .3 .4 .5 .1 Manufacturing Manufacturing (NAICS) 31–33 72.70 6.9 3.4 3.3 5.4 .1 1.3 3 .3 .4 .5 .1 Durable manufacturing Wood products 321 .88 1.2 7.70 6.9 3.4 3.5 5.4 .1 1.3 2 2.4 6 1.1 .6 6 1.1 .6 6 1.1 .6 6 1.1 .6 6 1.1 .6 6 1.1 .6 6 1.1 .6 6 1.1 .6 .5 1.0 .1.6 3.2 .2.5 2.0 0.2 2.3 .4 .4 -2.5 4.1 .5 .2 2.3 .6 .7 9 1.6 1.4 1.4 1.5 .7 .6 .2 1.1 .2.5 2.3 .3														6	1.3
Manufacturing Indicaturing (NAICS) 31-33 75.46 64 3.3 2.3 5.4 1.1 2 -3.3 3 4 5.5 1.1 Manufacturing Durable manufacturing 38.30 12.2 6.3 5.3 6.4 1.4 2.7 -2.2 2.4 -6 1.2 5.5 Wood products 321 .89 4.2 1.2 7.1 15.5 -7.6 3.9 -2.8 .8 1.2 -1.0 1.1 .6 Nometalite inineral products 332 5.78 2.12 7.1 15.5 -7.6 3.9 2.8 8 2.6 3.6 -7.3 9.3 .4 .4 .4 .5 5.7 0 6 0.0 Machinery 333 5.78 21.2 8.4 2.9 10.2 2.3 1.4 4.4 4.7 7.7 -1.4 4.4 1.3 -5. Computer and electonic products 335 1.84 12.9 2.4 3.6 </td <td>INDUSTRY CROUBS</td> <td>17.51</td> <td>5.9</td> <td>4.8</td> <td>2.7</td> <td>2.2</td> <td>0.2</td> <td>1.5</td> <td>.2</td> <td>.3</td> <td>.3</td> <td>1.1</td> <td>.1</td> <td>1.0</td> <td>5.6</td>	INDUSTRY CROUBS	17.51	5.9	4.8	2.7	2.2	0.2	1.5	.2	.3	.3	1.1	.1	1.0	5.6
Manufacturing (NAICS) 31-33 72.70 6.9 3.4 3.3 5.4 1 1.3 3 3 3 4 6 1.1 Durable manufacturing 38.30 12.2 6.3 5.3 6.4 1.4 2.7 2 2.2 4 6 1.2 5.5 Wood products 321 .88 1.2 1.2 7.1 15.5 -7.6 3.9 -2.8 8 1.2 -1.0 1.1 6.6 3.9 -2.8 8 1.2 -1.0 1.1 6.6 1.2 5.7 7.6 9.2 8 1.1 1.1 1.0 5 5 0 6 0 Primary metals 333 5.7.8 21.2 8.4 2.9 10.0 -1.6 2.3 4.4 4.2 5 5 0 6 0 0 1.4 1.4 1.5 1.1 2.2 3.3 3.3 3.4 4.4 4.2 1.3		75.46	64	33	2.8	49	- 1	12	- 3	3	3	- 4	5	1	2.6
Durable manufacturing38.3012.26.35.36.41.42.7 2 224 6 1.25.5Wood products321.894.21.27.115.5 76 3.9 -2.8 81.2 -1.0 1.16Nonmetalic mineral products3313.1112.38.8 -2.6 3.6 -7.3 9.344 -2.5 4.1 -5 2.2Fabricated metal products3325.6412.96.35.810.0 -1.6 2.3 -4 -5 5.0060Machinery3335.7821.28.42.910.22.3.1 -6 -9 1.6 -1.4 1.41.5Computer and electronic products3346.1017.87.25.62.0 6.4 4.41.1 1.0 $-5.$ 4 1.3 $-5.$ and components3351.8412.92.43.6.3 -3.2 4.3 $-8.$ 7 -6 -2.2 1.1 -2.2 Motor vehicles and parts3361-34.6115.311.71.8 7.1 7.7 $-1.$ $-4.$ -1.2 7.2 2.2 2.4 Furniture and related products3371.045.21.8 3.3 11.04.88.81.0 $-1.$ -2.5 $-3.$ $-7.$ Miscellaneous3393.172.9 $-1.$ 8.410.3 $-5.$ <t< td=""><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.8</td></t<>	,														2.8
Wood products 321 89 4.2 1.2 7.1 15.5 -7.6 3.9 -2.8 .8 1.2 -1.0 1.1 6.6 Nonmetallic mineral products 327 1.53 9.5 2 1.4 10.1 -1.6 3.2 -2.5 2.6 0 2 4 5 5.2 Fabricated metal products 332 5.64 12.9 6.3 5.8 10.0 -1.6 2.3 4 5 5.5 0 .6 0 0.0 0.2 3.1 6 9 1.6 -1.4 1.4 1.5 Computer and electronic products 334 6.10 17.8 7.2 5.6 2.0 6.4 4.4 1.1 1.0 5 4.4 1.3 5 Electricial equip, appliances, 3361–3 4.61 15.3 11.7 13.8 7.1 7.7 -1.1 4 .6 1.2 .5 5.2 5.2 2.0 2.0 A A 8.8 1.0 1 .2 1.1 .2 7.7 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>.5</td><td>4.8</td></t<>														.5	4.8
Nonmetallic mineral products 327 1.53 9.5 2 1.4 10.1 -1.6 3.2 -2.5 2.6 0 2 4 -3.3 Primary metals 331 3.11 12.3 8.8 -2.6 3.6 -7.3 9.3 .4 4.4 -2.5 4.1 5 0.6 0.0 Machinery 333 5.78 21.2 8.4 2.9 10.2 2.2 3.1 6 9 1.6 1.4 1.4 1.5 Computer and electronic products 334 6.10 17.8 7.2 5.6 2.0 6.4 4.4 1.1 1.0 5 4 1.3 5 and components 335 1.84 12.9 2.4 3.6 3 -3.2 4.3 8 .7 .6 2 1.1 2 2.0 Aerospace and miscellaneous 3364-9 4.59 1.4 6.4 4.8 .9 4.4 .1.7 .7 <td>8</td> <td></td> <td>.6</td> <td>8.4</td>	8													.6	8.4
Fabricated metal products 332 5.64 12.9 6.3 5.8 10.0 -1.6 2.3 -4 5 .5 .0 .6 .0 Machinery 333 5.78 21.2 8.4 2.9 10.2 .2 3.1 6 9 1.6 -1.4 1.4 1.4 1.5 Computer and electronic products 334 6.10 17.8 7.2 5.6 2.0 6.4 4.4 1.1 1.0 5 4 1.3 5 and components 335 1.84 12.9 2.4 3.6 .3 3 8 .7 .6 2 1.1 2 Acrospace and miscellaneous 11.7 1.8 7.1 7.7 1 .4 -1.2 .7 2.2 1.8 1.0 7 .2 1.8 1.0 7 .2 1.8 1.0 7 .2 1.8 1.0 7 .2 1.8 1.0 7 .2 1.8 1.0 7 .2 1.8 1.0 7 .2	mineral products	1.53	9.5	2	1.4	10.1	-1.6	3.2	-2.5	2.6	.0	2	.4	3	4.3
Machinery 333 5.78 21.2 8.4 2.9 10.2 2.2 3.1 6 9 1.6 -1.4 1.4 1.5 Computer and electronic products 334 6.10 17.8 7.2 5.6 2.0 6.4 4.4 1.1 1.0 5 4 1.3 5 and components 335 1.84 12.9 2.4 3.6 .3 3.2 4.3 8 .7 .6 2 1.1 2 Motor vehicles and parts 3361-3 4.61 15.3 11.7 1.8 7.1 7.7 -1.1 .4 -1.2 .7 2.2 2.0 Aerospace and miscellaneous 3364-9 4.59 1.4 6.4 4.8 9 4.4 -1.7 7 1 .4 -1.2 7.7 2.2 Furniture and related products 337 1.04 5.2 1.8 3.10 4.3 1 2.1 5.5 3.3 2 1.8 1.0 7 Furniture and related products 311.2 11.08				8.8			-7.3		.4	.4	-2.5	4.1	5	.2	4.4
Computer and electronic products 334 6.10 17.8 7.2 5.6 2.0 6.4 4.4 1.1 1.0 5 .4 1.3 5 and components 335 3361–3 4.61 15.3 11.7 13.8 7.1 7.7 -1.1 4 .6 1.2 -5.2 5.2 2.0 Aerospace and miscellaneous 3364–9 4.59 1.4 6.4 4.8 9 4.4 -1.7 7 1 .4 -1.2 7.7 2.2 Miscellaneous 337 1.04 5.2 1.8 3.3 11.0 4.8 8.8 1.0 1 2 1.8 1.0 7 Miscellaneous 339 3.17 2.9 1 8.4 10.3 .5 1.8 -1.1 .2 1.5 3 8 .7 .6 .1 3 .3 .2 1 2 1.8 1.0 .7 .1 .4 .1 .2 1.5 .1.0 .3 .1.3 .3 .1.1 .2 1.5	etal products													.0	3.0
Electrical equip., appliances, and components 335 1.84 12.9 2.4 3.6 .3 -3.2 4.3 8 .7 .6 2 1.1 2 2.0 Aerospace and miscellaneous transportation equipment 3364-9 4.61 15.3 11.7 13.8 7.1 7.7 -1.1 4 .6 1.2 -5.2 5.2 2.0 Aerospace and miscellaneous transportation equipment 3364-9 4.59 1.4 .6.4 4.8 9 4.4 -1.7 .7 1 .4 -1.2 .7 .2 1.8 1.0 .8 8.8 1.0 1 2 1.8 1.0 .7 .4 .4 7 .4 .4 .7 .6 .1 .8 .7 .6 .1 .2 1.5 .3 .3 .2 .5 1.0 .3 .1 .2 1.5 .3 .3 .2 .1 .3 .3 .2 .1 .3 .3 .2 .1 .3 .3 .2 .1 .3 .3 .2 .1 <td></td> <td>1.5</td> <td>3.5</td>														1.5	3.5
and components 335 1.84 12.9 2.4 3.6 .3 -3.2 4.3 8 .7 .6 2 1.1 2 Motor vehicles and parts 3361–3 4.61 15.3 11.7 13.8 7.1 7.7 -1.1 4 .6 1.2 -5.2 5.2 2.0 Aerospace and miscellaneous 3364–9 4.59 1.4 6.4 4.8 .9 4.4 -1.7 .7 1 .4 -1.2 .7 .2 Furniture and related products 337 1.04 5.2 1.8 3.3 11.0 4.8 8.8 1.0 1 2 1.8 1.0 7 Miscellaneous 339 3.17 2.9 1 8.4 10.3 .5 1.8 -1.1 .2 1.8 1.0 7 Moiscellaneous 311,2 11.08 .2 .5 2.5 6.6 -4.9 .8 -1.4 2 1.3 .6 .1 3 Food, beverage, and tobacco products 311,2 11.08 <td< td=""><td></td><td>6.10</td><td>17.8</td><td>7.2</td><td>5.6</td><td>2.0</td><td>6.4</td><td>4.4</td><td>1.1</td><td>1.0</td><td>5</td><td>.4</td><td>1.3</td><td>5</td><td>5.5</td></td<>		6.10	17.8	7.2	5.6	2.0	6.4	4.4	1.1	1.0	5	.4	1.3	5	5.5
Motor vehicles and parts 3361-3 4.61 15.3 11.7 13.8 7.1 7.7 -1.1 4 .6 1.2 -5.2 5.2 2.0 Aerospace and miscellaneous transportation equipment 3364-9 4.59 1.4 6.4 4.8 9 4.4 -1.7 7 1 4 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 1 2 1.8 1.0 .1 2 1.8 1.0 1.1 .2 1.5 3 8 1.7 .3 .3 2 1 .3 .3 2 1 .3 .3 2 1 .3 .3 2 1 .4 .1	1 11	25 101	10.0	<u> </u>	2.5		2.2	4.0	_	-	-	~		~	1.0
Aerospace and miscellaneous transportation equipment 3364–9 4.59 1.4 6.4 4.8 .9 4.4 -1.7 .7 1 .4 -1.2 .7 .2 Furniture and related products 337 1.04 5.2 1.8 3.3 11.0 4.8 8.8 1.0 1 2 1.8 1.0 4.8 8.8 1.0 1 2 1.8 1.0 4.8 8.8 1.0 1 2 1.8 1.0 4.8 8.8 1.0 1 2 1.8 1.0 4.8 8.8 1.0 1 2 1.8 1.0 4.3 -1.3 3 5 .3 .3 2 1 3 Food, beverage, and tobacco products 311,4 .71 4.0 .2 5 -1.2 -9.0 .9 -2.0 7 1.5 9 1.0 7 Apparel and leather 315,6 .26 6.5 -5.3 -2.6 14.2 -6.3 9.2 -2.6 2.9 .8 3 .8 1.5 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.0</td></td<>															1.0
transportation equipment 3364-9 4.59 1.4 6.4 4.8 .9 4.4 -1.7 .7 .1 .4 -1.2 .7 .2 Furniture and related products 337 1.04 5.2 1.8 3.3 11.0 4.8 8.8 1.0 1 2 1.8 1.0 7 Miscellaneous 339 3.17 2.9 1 8.4 10.3 .5 1.8 -1.1 .2 1.5 .3 3 5 .3 .3 2 1 3 Nondurable manufacturing 34.39 1.5 .5 1.0 4.3 -1.3 3 5 .3 .3 2 1 3 Food, beverage, and tobacco products 311.2 11.08 .2 .5 2.5 6.6 -4.9 .8 -1.4 2 1.3 6 1.1 3 Food, beverage, and tobacco products 313.4 .71 4.0 .2 5 1.2 -9.0 .9 -2.0 7 1.5 9 1.0 -		-3 4.61	15.3	11./	13.8	7.1	1.1	-1.1	4	.6	1.2	-5.2	5.2	2.0	11.3
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Miscellaneous 339 3.17 2.9 1 8.4 10.3 .5 1.8 -1.1 .2 1.5 3 8 .7 Nondurable manufacturing Food, beverage, and tobacco products 311,2 31.4 1.5 .5 1.0 4.3 -1.3 3 5 .3 .3 2 1 3 Food, beverage, and tobacco products 311,2 11.08 .2 .5 2.5 6.6 -4.9 .8 -1.4 2 1.3 6 .1 3 Appare1 and leather 315,6 .26 6.5 3 2 1.1 .4 .2 1.5 .3 .3 .2 .1 .3 Paper 322 2.41 .9 5 -2.3 3.1 2 -1.6 1 1.8 -1.4 .2 1 .4 .2 1 .4 .4 .2 .1 .4 .2 .1 .4 .4 .2 .1 .4 .2 .1 .4 .2 .1 .4 .2 .1 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.7</td></th<>															5.7
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Food, beverage, and tobacco products 311,2 11.08 .2 .5 2.5 6.6 -4.9 .8 -1.4 2 1.3 6 .1 3 Textile and product mills 313,4 .71 4.0 .2 5 -1.2 -90 .9 -2.0 7 1.5 9 1.0 7 Apparel and leather 315,6 .26 6.5 -5.3 -2.6 14.2 -6.3 9.2 -2.6 2.9 .8 3 .8 1.5 Paper 322 2.41 .9 5 -2.3 3.1 2 -1.6 1 1.8 -1.4 .2 1 4 Printing and support 323 1.41 2.2 -3.3 -1.7 4.5 1.2 -3.7 6 .7 2 8 1.1 5 .5 Chemicals .1 5 .3 .4 6 .1 3 .4 6 .1 .1 .1 .5 .4 .2 .1 .1 .5 .4 .2 .1<	6			_		1.2					-				
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Printing and support 323 1.41 2.2 -3.3 -1.7 4.5 1.2 -3.7 6 .7 2 8 .2 -1.1 Petroleum and coal products 324 3.95 .7 3.3 -1.3 10.8 -7.1 2.3 -1.7 .5 8 1.1 5 .5 Chemicals 325 11.67 1.2 .3 .7 1 2.7 -2.5 .7 .3 .0 3 4 6 Plastics and rubber products 326 2.90 7.7 .7 4.6 5.9 5.1 2.7 1 .5 .4 .2 4 .7 Other manufacturing (non-NAICS) 1133,5111 2.76 -5.6 3 -7.7 -7.2 -3.8 .8 .1 .4 5 .5 5 .5	January 3														4.8
Petroleum and coal products 324 3.95 .7 3.3 -1.3 10.8 -7.1 2.3 -1.7 .5 8 1.1 5 .5 Chemicals 325 11.67 1.2 .3 .7 1 2.7 -2.5 .7 .3 .0 3 4 6 Plastics and rubber products 326 2.90 7.7 .7 4.6 5.9 5.1 2.7 1 .5 .4 .2 4 .7 Other manufacturing (non-NAICS) 1133,5111 2.76 -5.6 3 -7.7 -7.2 -3.8 .8 .1 .4 5 .5 5 .8 Mining 21 14.62 8.7 7.6 4.3 7 7.8 12.9 .8 .7 1.2 1.6 .6 22 Utilities 2211,2 9.92 2.7 -2.3 .1 5.2 2 4.9 -1.6 -1.8 -2.0 2 9 4.4 Electric 2211 8.80 2.6 -1.8	support														8
Chemicals 325 11.67 1.2 .3 .7 1 2.7 -2.5 .7 .3 .0 3 4 6 Plastics and rubber products 326 2.90 7.7 .7 4.6 5.9 5.1 2.7 1 .5 .4 .2 4 .7 Other manufacturing (non-NAICS) 1133,5111 2.76 -5.6 3 -7.7 7.8 12.9 .8 .1 .4 5 .5 5 .8 Mining 21 14.62 8.7 7.6 4.3 7 7.8 12.9 .8 .7 1.2 1.6 .6 22 Utilities 2211,2 9.92 2.7 -2.3 .1 5.2 .2 2.4 9 4.4 Electric 2211 8.80 2.6 -1.8 3 5.5 .5 -5.4 -1.2 -1.9 7 9 5.0														.5	3.2
Plastics and rubber products 326 2.90 7.7 7 4.6 5.9 5.1 2.7 1 .5 .4 .2 4 .7 Other manufacturing (non-NAICS) 1133,5111 2.76 -5.6 3 -7.7 -7.2 -3.8 .8 .1 .4 5 .5 5 .8 Mining 21 14.62 8.7 7.6 4.3 7 7.8 12.9 .8 .7 1.2 1.6 .6 22 Utilities 2211,2 9.92 2.7 -2.3 .1 5.2 .2 -4.9 -1.6 -1.8 -2.0 2 9 4.4 Electric 2211 8.80 2.6 -1.8 3 5.5 .5 -5.4 -1.2 -1.2 -1.9 7 9 5.0	*													6	.5
Mining 21 14.62 8.7 7.6 4.3 7 7.8 12.9 .8 .7 1.2 1.6 .6 .2 Utilities 2211,2 9.92 2.7 -2.3 .1 5.2 .2 -4.9 -1.6 -1.8 -2.0 2 9 4.4 Electric 2211 8.80 2.6 -1.8 3 5.5 .5 -5.4 -1.2 -1.9 7 9 5.0	ubber products													.7	5.1
Utilities 2211,2 9.92 2.7 -2.3 .1 5.2 .2 -4.9 -1.6 -1.8 -2.0 2 9 4.4 Electric 2211 8.80 2.6 -1.8 3 5.5 .5 -5.4 -1.2 -1.9 7 9 5.0	ncturing (non-NAICS) 1133,5	11 2.76	-5.6	3	-7.7	-7.2	-3.8	.8	.1	.4	5	.5	5	.8	-2.8
Utilities 2211,2 9.92 2.7 -2.3 .1 5.2 .2 -4.9 -1.6 -1.8 -2.0 2 9 4.4 Electric 2211 8.80 2.6 -1.8 3 5.5 .5 -5.4 -1.2 -1.9 7 9 5.0		21 14.62	8.7	7.6	4.3	7	7.8	12.9	.8	.7	1.2	1.6	.6	.2	6.6
		1,2 9.92	2.7	-2.3	.1	5.2	.2	-4.9	-1.6	-1.8	-2.0	2	9	4.4	2.5
														5.0	3.0
Natural gas 2212 1.13 3.8 -5.7 3.7 3.0 -2.1 -1.5 -4.2 -5.5 -2.9 3.9 6 .3	2	1.13	3.8	-5.7	3.7	3.0	-2.1	-1.5	-4.2	-5.5	-2.9	3.9	6	.3	9

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NOTE. Under the industry groups, the figures to the right of the series descriptions are 2002 North American Industry Classification System (NAICS) codes. The abbreviation pt denotes part of a NAICS code. Additional industry detail is available on the Board's web site (www.federalreserve.gov/releases/G17). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown separately.

1. The proportion data are the relative weights for the rates of change for each series in the computation of the change in total industrial production in the following year. $\frac{8}{8}$

Table 2 Industrial Production: Special Aggregates and Selected Detail Percent change, seasonally adjusted Fourth quarter to

reicent change, seasonany adjusted				rth quarte urth quar			nnual rat	te			Month	nly rate			Sept. '12
Item		2012 proportion	2010	2011	2012	2013 Q1	Q2 ^r	Q3 ^p	2013 Apr. ^r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p	to Sept. '13
Total industry		100.00	6.2	3.3	2.8	4.1	1.1	2.3	3	.1	.2	1	.4	.6	3.2
Energy		26.50	5.1	3.3	1.9	2.3	4.9	4.5	.0	2	5	1.0	1	1.7	4.7
Consumer products		5.29	1.4	-1.1	.7	3.7	3.6	-4.7	7	-1.8	-2.5	.8	-1.5	3.9	3.3
Commercial products	010111	2.95	1.7	2	1.4	2.9	.8	3.0	3	1	-1.5	.7	.5	2.4	4.0
Oil and gas well drilling Converted fuel	213111	.75 3.98	45.2	21.3 -1.3	-7.6 .1	-7.8 4.4	8 -7.0	7.7 -6.3	7	.1 8	.5 -1.6	.6 8	1.2 -1.2	.5 3.9	-2.9
Primary energy		13.53	7.0	6.6	3.5	1.6	10.2	11.5	1.8	8	-1.0	1.6	-1.2	.3	7.3
Non-energy		73.50	6.6	3.3	3.1	4.8	2	1.5	4	.2	.5	5	.6	.2	2.6
Selected high-technology industries		3.22	27.2	9.7	2.3	-1.6	12.7	8.7	2.1	1.2	1	1.4	.9	8	7.3
Computers and peripheral equipment	3341	.33	-15.2	-18.4	3.6	3.3	2.2	2.7	.1	.2	.3	.3	.0	.3	3.3
Communications equipment	3342	.57	3.3	11.6	4	-1.0	.0	3.2	.3	.3	.2	.4	.1	.3	2.1
Semiconductors and related electronic components	334412–9	2.32	49.3	14.7	2.8	-2.3	17.4	10.8	2.8	1.6	2	1.8	1.2	-1.1	9.1
Excluding selected high-technology industries		70.28	5.6	3.0	3.1	5.1	8	1.2	5	.2	.5	5	.6	.2	2.4
Motor vehicles and parts	3361-3	4.61	15.3	11.7	13.8	7.1	7.7	-1.1	4	.6	1.2	-5.2	5.2	2.0	11.3
Motor vehicles	3361	2.20	9.8	17.2	13.8	7.1	16.1	-1.1	4	.0	2.4	-3.2	8.0	3.7	11.5
Motor vehicle parts	3363	2.11	23.0	6.5	14.3	7.2	.2	-1.5	6	.5	3	-2.3	3.1	1	4.9
Excluding motor vehicles and parts		65.67	4.9	2.4	2.4	4.9	-1.4	1.4	5	.2	.4	2	.3	.1	1.8
Consumer goods		19.28	.0	1.3	.8	5.2	-2.1	3	7	1	.9	5	2	2	.2
Business equipment		8.26	11.9	5.9	6.6	7.1	2.8	1.6	1	2	.5	5	.3	.9	3.6
Construction supplies		4.14 6.23	8.2	2.7	4.2 1.3	14.6	-4.5 1.7	4.8	-1.1	5	.7	.5 2	.3	.6 .0	5.6
Business supplies Materials		25.44	.9 7.5	.4 2.9	2.1	2.9 3.7	-2.6	1.6 1.7	3 5	.6 .5	.6 1	.0	.1 .5	1	1.6 1.8
Measures excluding selected high-technology industries															
Total industry		96.78	5.5	3.1	2.8	4.3	.7	2.1	4	.1	.2	1	.4	.6	3.1
Manufacturing ¹ Durable		72.24 35.23	5.3 10.6	3.0 5.9	2.9 5.6	5.2 7.1	6 .5	.9 2.2	4 4	.2 .1	.3 .4	5 8	.5 1.2	.2 .6	2.4 4.6
Measures excluding motor vehicles and parts															
Total industry		95.39	5.8	3.0	2.3	4.0	.8	2.5	3	.1	.2	.2	.2	.5	2.8
Manufacturing ¹ Durable		70.85 33.84	5.8 11.7	2.8 5.6	2.2 4.2	4.8 6.3	6 .6	1.4 3.3	3 2	.2 .2	.3 .3	1 .0	.2 .7	.0 .3	2.0 3.9
Measures excluding selected high-technology industries and motor vahicles and parts															
and motor vehicles and parts		92.17	4.9	2.7	2.2	4.2	.4	2.3	4	1	2	1	2	.5	2.6
Manufacturing ¹		67.63	4.9	2.7	2.2	5.1	-1.1	1.1	4	.2	.2	.1 1	.2	.1	1.8
Stage-of-process components of non-energy materials, measures of the input to Finished processors		11.52	18.8	7.8	3.4	4.0	1.1	2.6	.1	.6	.1	8	1.9	2	3.6
Primary and semifinished processors		17.51	6.9	1.6	2.8	3.2	-2.6	1.8	6	.6	2	.5	.0	2	1.9

r Revised. p Preliminary. 1. Refer to note on cover page.

Table 3 MOTOR VEHICLE ASSEMBLIES Millions of units, seasonally adjusted annual rate

Millions of units, seasonally adjusted annual	rate										
	2012	2012	2013			2013					
Item	average	Q4	Q1	Q2	Q3	Apr.	May	June	July	Aug.	Sept.
	10.00	10.45	10 51	11.00	10.01	10.00	11.07	11.00	10.02		
Total	10.33	10.46	10.71	11.09	10.91	10.99	11.05	11.22	10.03	11.16	11.55
Autos	4.11	4.13	4.37	4.43	4.16	4.37	4.40	4.52	3.77	4.23	4.48
Trucks	6.23	6.32	6.34	6.66	6.75	6.62	6.65	6.70	6.26	6.93	7.07
Light	5.96	6.08	6.11	6.40	6.47	6.37	6.40	6.43	5.97	6.67	6.78
Medium and heavy	.27	.24	.23	.26	.28	.26	.26	.27	.30	.25	.29
Memo											
Autos and light trucks	10.06	10.21	10.48	10.83	10.63	10.74	10.79	10.95	9.73	10.91	11.26

NOTE. Seasonal factors and underlying data for auto, light truck, and medium and heavy truck production are available on the Board's web site, www.federalreserve.gov/releases/G17/mvsf.htm

Table 4 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY 2007 = 100, seasonally adjusted

007 = 100, seasonally adjusted		2012	2013								
Item		proportion	Jan.	Feb.	Mar.	Apr. ^r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p
Total IP		100.00	98.2	98.8	99.1	98.8	98.9	99.1	99.1	99.5	100.0
MARKET GROUPS											
Final products and nonindustrial supplies		53.46	93.5	94.4	94.8	94.4	94.2	94.6	94.1	94.4	95.2
Consumer goods		27.14	93.3	94.1	94.8	94.2	93.9	94.3	93.5	93.7	94.4
Durable Automotive products		5.81 2.98	93.3 103.9	94.9 106.4	95.6 108.3	95.4 108.0	95.6 108.8	96.9 110.5	94.7 105.3	97.0 110.1	97.7 112.0
Home electronics		.14	58.7	61.3	62.3	62.1	60.3	61.9	58.7	58.8	58.6
Appliances, furniture, carpeting		.78	69.4	68.7	68.9	69.0	69.7	69.8	70.0	71.2	70.8
Miscellaneous goods		1.91	92.2	93.9	93.2	92.7	92.2	93.5	94.1	94.1	93.7
Nondurable		21.33	93.7	94.2	95.0	94.3	93.8	93.9	93.6	93.1	93.9
Non-energy		16.04	91.9	92.2	91.7	91.0	91.0	91.9	91.2	91.1	90.9
Foods and tobacco		9.11	99.5	101.2	100.2	98.6	98.4	99.8	99.0	99.5	99.2
Clothing Chemical products		.20 4.87	59.3 85.1	59.5 83.5	58.5 83.8	56.9 84.6	58.3 84.7	58.7 85.1	58.4 84.6	59.2 83.6	60.1 83.3
Paper products		1.36	74.9	74.5	73.2	73.4	73.4	72.9	72.5	72.1	72.3
Energy		5.29	99.9	100.9	106.1	105.3	103.4	100.9	101.7	100.1	104.1
Business equipment		9.61	100.5	102.3	102.4	102.3	102.2	102.8	102.0	102.5	103.8
Transit		2.16	100.5	102.5	102.4	102.3	102.2	102.8	102.0	102.5	105.8
Information processing		2.09	100.9	102.5	100.1	100.3	104.0	100.2	100.3	101.6	100.2
Industrial and other		5.36	99.2	102.0	101.8	101.2	100.7	101.8	101.6	101.6	102.8
Defense and space equipment		2.29	112.7	112.7	112.6	112.6	112.6	113.7	112.7	114.6	115.1
Construction supplies		4.16	80.9	82.8	81.9	81.0	80.6	81.2	81.6	81.8	82.3
Business supplies		9.47	90.7	90.9	91.4	91.2	91.6	91.5	91.6	91.8	92.4
Materials		46.54	104.2	104.5	104.6	104.5	105.0	105.0	105.4	106.0	106.3
Non-energy		29.02	99.3	99.3	98.7	98.5	99.0	98.9	98.9	99.6	99.4
Durable		17.64	105.7	106.2	105.6	105.3	105.7	105.7	105.8	107.1	107.1
Consumer parts		2.61	98.1	98.0	96.7	96.0	96.5	95.5	93.4	97.4	97.5
Equipment parts Other		6.49 8.54	129.9 92.1	130.9 92.5	130.5 92.0	131.7 91.2	132.2 91.4	133.0 91.2	132.6 92.3	134.7 92.3	134.3 92.4
Nondurable		11.39	90.4	89.7	89.4	89.0	89.8	89.6	89.4	89.4	89.0
Textile		.44	79.3	77.5	77.9	75.9	75.1	76.7	75.7	76.6	75.8
Paper		1.98	83.4	83.6	83.2	82.7	83.9	83.5	83.1	83.1	83.0
Chemical		5.65	90.2	89.6	88.9	88.9	90.0	89.8	89.4	89.8	89.2
Energy		17.51	111.7	112.7	113.9	114.1	114.5	114.8	116.1	116.2	117.4
INDUSTRY GROUPS											
Manufacturing	21.22	75.46	95.2	95.7	95.5	95.2	95.4	95.7	95.4	95.9	96.0
Manufacturing (NAICS) Durable manufacturing	31–33	72.70 38.30	96.5 101.7	97.1 102.9	96.9 102.7	96.6 102.5	96.8 102.7	97.2 103.1	96.8 102.5	97.3 103.7	97.4 104.2
Wood products	321	.89	75.7	77.5	76.6	74.4	75.0	75.9	75.1	75.9	76.3
Nonmetallic mineral products	327	1.53	72.1	73.5	73.2	71.4	73.2	73.2	73.1	73.4	73.2
Primary metals	331	3.11	100.2	99.4	97.3	97.6	98.1	95.6	99.5	99.0	99.2
Fabricated metal products	332	5.64	93.6	95.5	94.8	94.4	93.9	94.4	94.4	94.9	94.9
Machinery	333	5.78	101.4	104.3	104.0	103.4	102.4	104.0	102.6	104.0	105.6
Computer and electronic products	334	6.10	133.2	133.0	133.1	134.5	135.9	135.2	135.7	137.5	136.8
Electrical equip., appliances, and components	335	1.84	86.9	88.3	86.7	86.0	86.6	87.1	87.0	87.9	87.7
Motor vehicles and parts	3361-3	4.61	102.6	104.0	105.4	105.0	105.7	107.0	101.4	106.7	108.8
Aerospace and miscellaneous	5501 5	1.01	102.0	10110	100.7	100.0	100.1	107.0	101.7	100.7	100.0
transportation equipment	3364–9	4.59	103.2	104.0	104.0	104.8	104.7	105.1	103.9	104.6	104.8
Furniture and related products	337	1.04	70.6	71.2	71.3	72.0	71.9	71.7	73.1	73.8	73.3
Miscellaneous	339	3.17	108.5	109.6	110.0	108.8	109.0	110.7	110.3	109.4	110.2
Nondurable manufacturing		34.39	91.2	91.2	91.0	90.5	90.8	91.1	90.9	90.8	90.5
Food, beverage, and tobacco products	311,2	11.08	101.0	102.1	101.3	99.9	99.7	101.0	100.4	100.5	100.2
Textile and product mills	313,4	.71	74.9	73.6	73.9	72.4	71.9	72.9	72.3	73.0	72.4
Apparel and leather	315,6	.26	58.3	58.7	57.5	56.0	57.6	58.1	57.9	58.4	59.2
Paper Printing and support	322 323	2.41 1.41	85.7 76.4	86.0 75.8	84.9 76.6	84.8 76.2	86.4 76.7	85.2 76.6	85.3 75.9	85.2 76.0	84.9 75.2
Printing and support Petroleum and coal products	323 324	3.95	76.4 97.8	75.8 98.3	76.6 97.8	76.2 96.2	76.7 96.6	76.6 95.8	75.9 96.9	76.0 96.4	75.2 96.9
Chemicals	325	11.67	87.5	86.6	86.7	87.3	87.6	87.6	87.4	87.0	86.5
Plastics and rubber products	326	2.90	89.1	88.7	90.1	90.0	90.4	90.8	91.0	90.7	91.3
	1133,5111	2.76	68.9	68.2	67.4	67.5	67.7	67.4	67.7	67.3	67.9
Other manufacturing (non-NAICS)											121.0
	2.1	14.62	115.0	116.1	115.8	116.8	117.6	119.0	120.9	121.6	121.9
Other manufacturing (non-NAICS) Mining Utilities	21 2211,2	14.62 9.92	115.0 97.9	116.1 98.9	115.8 103.8	116.8 102.1	117.6 100.3	119.0 98.3	120.9 98.1	121.6 97.3	121.9 101.6
Mining											

r Revised. p Preliminary. NOTE. Refer to notes on table 1.

Table 5 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES 2007 = 100, seasonally adjusted

07 – 100, seasonany aujusieu											
Item		2012 proportion	2013 Jan.	Feb.	Mar.	Apr. ^r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p
Total industry		100.00	98.2	98.8	99.1	98.8	98.9	99.1	99.1	99.5	100.0
- -		26.50	107.5	100 5	110.5	110.4	110.2	100.7	110.0	1107	110 0
Energy		26.50	107.5	108.5	110.5	110.4	110.2	109.7	110.8	110.7	112.6
Consumer products		5.29	99.9	100.9	106.1	105.3	103.4	100.9	101.7	100.1	104.1
Commercial products	010111	2.95	101.2	101.7	103.1	102.8	102.7	101.1	101.8	102.3	104.8
Oil and gas well drilling	213111	.75	96.1	96.9	96.9	96.3	96.3	96.8	97.4	98.5	99.0
Converted fuel		3.98	94.9	97.7	102.8	97.7	96.9	95.4	94.7	93.5	97.1
Primary energy		13.53	117.3	117.7	117.5	119.6	120.3	121.3	123.2	123.8	124.1
Non-energy		73.50	95.0	95.6	95.3	94.9	95.2	95.6	95.2	95.7	95.9
Selected high-technology industries		3.22	154.5	153.3	154.1	157.4	159.3	159.2	161.4	162.9	161.7
Computers and peripheral equipment	3341	.33	66.7	67.0	67.0	67.1	67.2	67.4	67.6	67.7	67.8
Communications equipment	3342	.57	91.5	91.4	90.7	91.0	91.2	91.4	91.8	91.9	92.1
Semiconductors and related											
electronic components	334412–9	2.32	229.8	227.3	229.4	235.8	239.6	239.1	243.3	246.3	243.4
Excluding selected high-technology											
industries		70.28	92.3	92.9	92.6	92.1	92.3	92.8	92.3	92.8	93.0
Motor vehicles and parts	3361-3	4.61	102.6	104.0	105.4	105.0	105.7	107.0	101.4	106.7	108.8
Motor vehicles	3361	2.20	103.0	106.1	108.9	108.6	109.4	112.0	103.2	111.6	115.7
Motor vehicle parts	3363	2.11	105.0	105.1	105.7	105.1	105.6	105.3	102.9	106.1	106.0
Excluding motor vehicles and parts		65.67	91.6	92.2	91.7	91.3	91.4	91.8	91.6	91.9	91.9
Consumer goods		19.28	90.2	90.8	90.3	89.7	89.7	90.5	90.0	89.9	89.7
Business equipment		8.26	102.5	104.6	104.6	104.6	104.4	105.0	104.5	104.9	105.8
Construction supplies		4.14	80.8	82.7	81.8	80.9	80.5	81.1	81.5	81.7	82.2
Business supplies		6.23	83.7	83.7	83.8	83.6	84.1	84.6	84.4	84.4	84.4
Materials		25.44	92.3	92.4	91.7	91.3	91.7	91.6	91.7	92.1	92.0
Measures excluding selected high-technology											
industries											
Total industry		96.78	96.3	96.9	97.2	96.8	96.9	97.1	97.0	97.4	98.0
Manufacturing ¹		72.24	92.5	93.1	92.9	92.5	92.7	93.0	92.5	93.0	93.2
Durable		35.23	96.4	97.8	97.5	97.1	97.2	97.7	96.9	98.1	98.7
Measures excluding motor vehicles and parts											
Total industry		95.39	97.9	98.5	98.7	98.5	98.6	98.7	98.9	99.1	99.6
Manufacturing ¹		70.85	94.7	95.2	94.9	94.6	94.8	95.0	95.0	95.2	95.2
Durable		33.84	101.4	102.6	102.1	102.0	102.1	102.4	102.5	103.1	103.4
Measures excluding selected high-technology industries and motor vehicles and parts											
Total industry		92.17	95.9	96.6	96.8	96.4	96.5	96.6	96.8	96.9	97.5
Manufacturing ¹		67.63	91.9	92.4	92.0	91.6	91.8	92.1	91.9	92.1	92.2
74											
Stage-of-process components of non-energy materials, measures of the input to Finished processors		11.52	110.2	110.6	110.0	110.1	110.8	110.8	110.0	112.0	111.9

r Revised. p Preliminary. 1. Refer to note on cover page.

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION Percent

Percent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2011	52.6	51.0	60.3	46.2	54.8	51.3	57.7	53.8	56.1	56.7	50.3	63.5
2012	62.2	64.4	46.8	63.8	54.2	58.3	52.2	43.6	53.2	48.4	71.2	61.9
2013	52.9	60.4	45.5	47.8	53.8	60.4	47.6	54.5				
Three months earlier												
2011	59.6	58.3	61.5	50.3	54.5	49.0	53.8	53.8	58.3	60.6	61.5	61.5
2012	66.7	74.0	61.9	58.7	51.0	61.9	54.5	51.3	47.4	42.3	62.5	63.8
2013	66.3	64.4	53.5	50.3	47.1	55.4	54.2	57.7				
Six months earlier												
2011	58.0	56.1	62.2	58.7	59.3	53.8	56.1	54.2	51.9	61.9	58.0	63.5
2012	71.5	71.5	65.7	65.4	64.4	60.3	58.7	53.8	59.0	51.9	55.1	59.9
2013	57.1	67.0	62.5	63.1	54.2	56.4	55.4	52.2				
	1											

NOTE. The diffusion indexes are calculated as the percentage of series that increased over the indicated span (one, three, or six months) plus one-half the percentage that were unchanged.

2013 2013	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sept
78.0 77.9 78.0 77.9 77.9 77.9 77.7 77.9	78.
76.3 76.0 76.0 75.9 76.0 76.2 75.8 76.1	76.
76.5 76.0 76.0 75.9 76.0 76.2 75.8 76.1 77.0 76.7 76.6 76.6 76.7 76.9 76.4 76.8	76.
76.2 76.0 76.0 76.0 76.0 76.1 75.5 76.2	76.
69.5 68.1 68.7 67.5 68.0 68.8 68.1 68.8	69.
58.1 58.2 59.1 57.1 58.7 58.8 58.8 59.2	59.
74.9 73.6 75.5 74.0 74.4 72.5 75.6 75.3	75.
84.9 84.4 84.8 84.6 84.1 84.5 84.5 85.0	85.
81.5 81.0 81.2 81.2 80.3 81.4 80.2 81.1	82.
74.0 73.8 73.1 74.0 74.2 73.3 73.1 73.5	72.
81.7 80.6 81.1 80.2 80.7 81.0 80.7 81.5	81.
74.5 75.4 74.9 74.9 75.3 76.1 72.0 75.7	77.
73.1 73.4 72.6 73.5 73.3 73.4 72.4 72.7	72.
72.7 73.7 75.3 73.8 73.7 73.6 74.9 75.8	75.
78.7 77.8 77.3 77.6 77.5 78.4 77.8 76.9	77.
77.9 77.5 77.3 77.3 77.5 77.7 77.5 77.3	77.
81.4 80.2 80.1 80.0 79.8 80.7 80.2 80.2	79.
70.8 69.8 70.6 69.6 69.3 70.6 70.1 71.0	70.
70.2 69.9 72.4 68.1 70.4 71.3 71.4 72.3	73.
82.3 82.5 82.4 81.8 83.4 82.3 82.5 82.5	82.
67.2 67.8 67.6 67.4 68.0 68.1 67.7 67.9	67.
85.2 83.3 83.3 83.4 83.7 82.8 83.6 83.0	83.
74.7 74.9 74.2 74.8 75.0 74.9 74.6 74.3	73.
74.3 74.7 74.6 74.5 74.7 74.8 74.8 74.3	74.
60.6 60.3 60.8 60.2 60.5 60.3 60.7 60.5	61.
87.5 88.3 90.0 87.8 88.1 88.9 89.9 90.1	90.
78.5 78.4 77.3 79.9 78.5 76.8 76.7 75.9	79.
70.4 71.2 71.0 71.2 71.5 70.9 71.4 71.4	70.
68.3 69.2 70.6 68.8 69.2 69.7 70.2 70.5	71.
78.1 78.0 78.1 77.9 78.0 78.0 78.1 78.0	78.
69.1 70.1 69.7 70.1 70.5 69.7 70.1 70.2	68.
78.3 78.1 78.3 78.1 78.1 78.2 78.0 78.2	78.
76.6 76.3 76.3 76.2 76.3 76.5 76.0 76.4	76.
86.2 86.8 88.0 86.2 86.9 87.2 87.9 88.1	87.
	76.
	75.
76.4 76.0 76.1 76.4 76.1 75.7 75.7	

Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

r Revised. p Preliminary. 1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY Percent change

													Monthly
	1	Average an	nnual rate		Fourth	quarter to	o fourth o	uarter		Annual	rate		rate
Item	1972-	1980-	1989-	1995-		_			2012	2013			2013
	79	88	94	2013	2010	2011	2012	2013	Q4	Q1	Q2	Q3	Sept.
Total industry	3.1	1.9	2.3	2.3	-2.1	1.3	2.2	1.8	1.9	1.7	1.7	1.8	.2
Manufacturing ¹	3.3	2.2	2.5	2.4	-2.0	.6	1.6	1.6	1.6	1.5	1.5	1.6	.1
Mining	.7	.1	7	.7	-1.0	4.6	4.7	4.4	4.0	4.1	4.2	4.4	.4
Utilities	4.2	2.1	1.8	2.0	1.0	2.0	1.9	.9	1.5	1.2	.9	.7	.1
Selected high-technology industries	19.6	17.3	15.8	20.2	11.1	26.4	4.1	7.7	3	3.7	7.4	9.8	.8
Manufacturing ¹ ex. selected	17.0	1710	1010	2012		2011				517		7.0	.0
high-technology industries	2.6	1.3	1.6	1.0	-2.7	5	1.5	1.2	1.6	1.3	1.2	1.1	.1
STAGE-OF-PROCESS GROUPS													
Crude	1.6	.4	5	.7	-1.5	3.4	3.2	3.5	2.7	3.0	3.3	3.7	.3
Primary and semifinished	3.0	1.3	2.5	2.7	-1.1	1.4	.7	.7	.3	.4	.6	.8	.1
Finished	3.9	3.3	2.7	2.3	-2.1	.4	3.3	2.5	3.5	2.9	2.5	2.3	.2

1. Refer to note on cover page.

Table 9 GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES Billions of 2009 dollars at annual rate, seasonally adjusted

Dimono of 2007 domais at annual rate, seasor			2012			2012					
			2013			2013					
Item	2009	2012	Q1	Q2 ^r	Q3 ^p	Apr. ^r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p
Final products and nonindustrial supplies	3,212.1	3,522.7	3,589.7	3,603.9	3,614.4	3,599.5	3,601.0	3,611.0	3,593.9	3,607.6	3,641.6
Final products	2,410.8	2,666.8	2,718.0	2,734.1	2,737.0	2,729.2	2,732.2	2,740.9	2,720.8	2,731.0	2,759.2
Consumer goods	1,811.6	1,920.6	1,961.1	1,971.0	1,970.5	1,966.8	1,971.9	1,974.2	1,960.7	1,966.8	1,984.0
Durable	381.8	484.8	509.0	519.1	521.2	514.5	517.4	525.3	506.8	525.3	531.5
Automotive products	225.1	318.3	335.3	345.2	345.3	341.2	344.1	350.3	331.1	348.9	356.0
Other durable goods	156.7	166.4	173.7	173.9	175.9	173.3	173.3	175.1	175.5	176.5	175.7
Nondurable	1,429.8	1,444.6	1,463.6	1,465.0	1,462.8	1,464.6	1,467.2	1,463.0	1,465.0	1,455.9	1,467.4
Equipment, total	599.3	753.6	763.8	770.3	774.1	769.7	767.1	774.2	767.4	771.7	783.3
Business and defense	583.1	728.4	740.0	746.7	750.1	746.1	743.6	750.5	743.6	747.6	759.1
Business	477.1	612.8	624.0	630.6	633.1	630.2	627.9	633.7	628.0	630.0	641.2
Defense and space	106.0	115.9	116.5	116.7	117.6	116.4	116.2	117.4	116.1	118.1	118.5
Nonindustrial supplies	801.3	855.6	871.4	869.4	877.0	869.9	868.4	869.7	872.8	876.3	882.0
Construction supplies	221.8	251.3	262.9	258.8	261.3	259.2	257.7	259.3	261.0	260.8	262.0
Business supplies	579.5	604.8	609.3	611.3	616.5	611.4	611.4	611.1	612.5	616.2	620.7
Commercial energy products	233.3	237.2	239.0	238.0	240.8	240.5	238.2	235.3	237.2	240.2	244.9

r Revised. p Preliminary.

Table 10 GROSS-VALUE-WEIGHTED INDUSTRIAL PRODUCTION: STAGE-OF-PROCESS GROUPS

Percent change, seasonally adjusted

		Fou	irth quart	er to										
		fo	urth quar	ter	A	Annual r	ate			Mont	hly rate			Sept. '12
Item	2012				2013			2013						to
	gross value1	2010	2011	2012	Q1	$Q2^{r}$	Q3 ^p	Apr. ^r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p	Sept. '13
Finished	2,126.7	4.1	4.7	4.4	5.6	2.2	.6	3	.1	.9	-1.3	.9	.6	3.5
Semifinished	1,860.4	9.2	2.9	3.2	6.6	-1.2	8	5	5	2	7	.6	1.0	2.7
Primary	1,389.0	3.9	1.4	.0	4.3	-1.1	2.9	9	.7	8	1.3	7	.6	3.0
Crude	654.4	6.5	3.0	1.8	-1.9	5.0	7.2	.2	1.5	.2	.7	.6	.1	4.1

r Revised. p Preliminary.

1. Billions of 2009 dollars.

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
	Juii.	100.	ivitu.	7 tp1.	inay	June	July	riug.	Bept.	000	1101.	Dee.	Q1	<u><u></u> <u></u> <u></u></u>	<u><u></u> 2³</u>	<u> </u>	7 minut
IP (percent																	
change) ¹ 1991	4	6	5	.2	1.0	1.0	.0	.1	.9	2	1	4	-7.4	2.4	5.5	.9	-1.5
1991	4	0		.2	.4	.0	.0	5	.2	2	1	4	-7.4	7.2	2.9	4.3	2.8
1993	.5	.4	.0	.3	4	.2	.3	.0	.5	.7	.4	.5	3.6	.9	1.9	6.1	3.3
1994	.4	.1	1.0	.5	.5	.7	.2	.6	.3	.9	.6	1.0	5.1	7.5	5.2	8.5	5.3
1995	.2	1	.2	.0	.3	.4	4	1.3	.4	2	.3	.4	4.5	1.4	3.8	3.3	4.7
1996	7	1.6	2	.8	.7	.9	1	.7	.5	.0	.8	.6	2.8	8.4	5.3	5.5	4.4
1997	.1	1.0	.8	.0	.7	.5	.6	1.3	.9	.0	.0	.0	7.8	6.5	9.7	10.1	7.2
1998	.5	.1	.1	.4	.7	6	4	2.1	3	.8	1	.4	4.5	2.9	2.9	5.5	5.8
1999	.4	.4	.2	.2	.7	2	.7	.4	3	1.3	.5	.8	4.1	3.9	4.0	7.6	4.3
2000	.1	.4	.4	.6	.2	.1	2	3	.5	4	.0	3	4.7	4.6	6	-1.3	4.0
2001	7	6	3	3	7	7	4	3	3	5	5	.0	-5.6	-5.3	-5.5	-4.5	-3.4
2002	.6	.0	.7	.4	.5	1.0	3	.1	.1	3	.5	5	2.7	6.5	2.4	2	.2
2003	.7	.4	2	8	.0	.0	.4	1	.6	.0	.8	1	3.1	-3.3	1.9	3.3	1.2
2004 2005	.3 .4	.6 .6	5 1	.4 .1	.7 .2	8 .4	.8 1	.2 .1	.0 -2.0	1.0 1.2	.2 1.0	.7 .6	2.8 5.4	1.8 2.1	2.5 -1.5	5.7 3.2	2.3 3.2
2005	.4	.0	1	.1	.2	.4	1	.1	-2.0	1.2	1.0	.0	5.4	2.1	-1.5	3.2	3.2
2006	.1	.1	.3	.4	1	.4	.0	.2	1	1	1	1.0	3.8	2.6	1.5	.6	2.2
2007	5	1.1	.1	.7	.1	.0	.0	.1	.4	5	.6	.0	3.8	4.8	1.1	1.0	2.5
2008 2009	3 -2.2	2 6	3 -1.5	8 8	5 -1.0	2 4	5 .9	-1.6 1.1	-4.2 .7	.8 .3	-1.2 .5	-2.8 .5	-1.4 -19.8	-5.5 -10.9	-12.1 4.9	-15.9 6.6	-3.4
2009	-2.2	0	-1.5	0	-1.0	4	.9	.3	.7	3	.3	1.0	-19.8	-10.9	4.9 6.2	1.7	5.7
2010	1.1		.0	.0	1.0	.2	.0	.0	.0		.0	1.0		5.7	0.2	1.7	
2011	1	5	1.0	6	.4	.2	.6	.5	.1	.6	.2	.6	2.6	1.0	5.0	4.7	3.4
2012	.7	.5	5 .3	.7 3	.3	.0	.4	8	.2	1	1.3	.0	5.4	2.9	.3	2.5	3.6
2013	.0	./	.3	3	.1	.2	1	.4	.6				4.1	1.1	2.3		
IP (2007=100)																	
2011	92.6	92.2	93.1	92.6	92.9	93.1	93.6	94.1	94.2	94.7	95.0	95.5	92.6	92.9	94.0	95.1	93.6
2012 2013	96.2 98.2	96.7 98.8	96.1 99.1	96.9 98.8	97.1 98.9	97.1 99.1	97.6 99.1	96.8 99.5	97.0 100.0	96.8	98.1	98.2	96.3 98.7	97.0 99.0	97.1 99.5	97.7	97.0
Capacity (percent of 2007 output)																	
2011	121.6	121.7	121.8	121.9	122.0	122.2	122.4	122.6	122.8	123.1	123.3	123.6	121.7	122.0	122.6	123.3	122.4
2012	123.9	124.1	124.3	124.6	124.8	125.0	125.2	125.4	125.6	125.8	126.0	126.2	124.1	124.8	125.4	126.0	125.1
2013	126.4	126.5	126.7	126.9	127.1	127.3	127.4	127.6	127.8				126.5	127.1	127.6		
Utilization (percent)																	
1991	79.9	79.3	78.8	78.8	79.5	80.2	80.1	80.1	80.7	80.5	80.3	79.9	79.3	79.5	80.3	80.2	79.8
1992 1993	79.3 81.3	79.8 81.5	80.3 81.3	80.7 81.4	80.8 81.0	80.6 81.1	81.2 81.2	80.6 81.1	80.6 81.4	81.0 81.8	81.2 82.0	81.0 82.3	79.8 81.3	80.7 81.2	80.8 81.2	81.1 82.0	80.6 81.4
1994	82.4	82.3	82.9	83.2	83.4	83.7	83.6	83.8	83.7	84.2	84.4	85.0	82.6	83.4	83.7	84.5	83.6
1995	84.9	84.5	84.4	84.0	83.9	83.9	83.3	84.1	84.1	83.6	83.5	83.4	84.6	84.0	83.8	83.5	84.0
1006	00 5	025	02.0	02.2	025	02.0	024	02 6	02 6	02.0	025	02.6	02.0	02 6	025	02 5	02.4
1996 1997	82.5 83.3	83.5 83.9	83.0 84.1	83.3 83.7	83.5 83.9	83.9 83.8	83.4 83.8	83.6 84.4	83.6 84.6	83.2 84.6	83.5 84.8	83.6 84.6	83.0 83.8	83.6 83.8	83.5 84.3	83.5 84.7	83.4 84.1
1998	84.4	84.0	83.5	83.3	83.3	82.3	81.5	82.8	82.1	82.3	81.9	81.8	84.0	82.9	82.1	82.0	82.8
1999	81.8	81.8	81.6	81.5	81.8	81.3	81.5	81.6	81.0	81.8	81.9	82.2	81.7	81.5	81.4	82.0	81.6
2000	82.0	82.0	82.1	82.3	82.2	81.9	81.5	81.0	81.2	80.6	80.3	79.8	82.0	82.1	81.2	80.2	81.4
2001	79.0	78.3	77.9	77.5	76.7	76.0	75.5	75.1	74.7	74.2	73.6	73.5	78.4	76.7	75.1	73.8	76.0
2002	73.9	73.7	74.2	74.4	74.8	75.5	75.2	75.3	75.3	75.1	75.5	75.2	73.9	74.9	75.3	75.3	74.8
2003	75.8	76.1	76.0	75.4	75.4	75.5	75.8	75.7	76.2	76.2	76.8	76.7	76.0	75.4	75.9	76.5	76.0
2004	77.0	77.4	77.0	77.4	77.9	77.3	77.9	78.1	78.1	78.8	78.9	79.4	77.1	77.5	78.0	79.1	77.9
2005	79.7	80.1	80.0	80.0	80.0	80.2	80.0	80.0	78.3	79.2	79.8	80.2	79.9	80.1	79.4	79.7	79.8
2006	80.2	80.1	80.2	80.4	80.2	80.4	80.3	80.3	80.1	79.9	79.6	80.2	80.2	80.3	80.3	79.9	80.2
2007	79.7	80.4	80.3	80.7	80.6	80.5	80.4	80.4	80.7	80.3	80.7	80.8	80.1	80.6	80.5	80.6	80.5
2008 2009	80.5 70.0	80.4 69.6	80.2 68.5	79.6 67.9	79.3 67.2	79.2 66.9	78.8 67.6	77.5 68.3	74.2 68.9	74.8 69.2	73.9 69.7	71.7 70.1	80.4 69.4	79.4 67.3	76.8 68.3	73.5 69.7	77.5
2009	70.0	71.5	72.2	72.6	73.9	74.2	74.8	75.1	75.4	75.2	75.5	76.2	71.6	73.6	75.1	75.6	74.0
				. 2.0													
2011	76.1	75.7	76.5	76.0	76.1	76.2	76.5	76.8	76.7	77.0	77.0	77.3	76.1	76.1	76.7	77.1	76.5
2012 2013	77.7 77.7	77.9 78.1	77.3 78.2	77.7 77.9	77.8 77.9	77.7 77.9	77.9 77.7	77.2 77.9	77.2 78.3	77.0	77.9	77.8	77.6	77.7 77.9	77.4 78.0	77.5	77.6
2013	//./	/0.1	10.2	11.9	11.9	11.9	//./	11.9	10.3				/ 0.0	11.9	/ 0.0		
1 Quarterly changes													I				L

Table 11 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry Seasonally adjusted

1. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
	buin	100.	man	p.i	intuj	build	vary	i iugi	Sopti		11011			<u> </u>	<u><u> </u></u>	<u> </u>	
IP (percent change) ²																	
1991	8	6	7	.3	.7	1.1	.2	.3	1.1	2	2	1	-8.8	1.9	7.2	1.6	-2.0
1992	6	.9	1.0	.5	.6	.3	.9	4	.0	.7	.4	2	.5	8.2	4.0	3.1	3.6
1993	1.0	.2	2	.5	1	2	.3	1	.6	.8	.4	.5	4.5 4.9	1.4	1.0	6.9	3.5
1994 1995	.2 .2	.1 2	1.3 .2	.8 1	.7 .1	.3 .5	.4 6	.8 1.1	.4 .8	1.0 1	.8 .1	1.1 .4	4.9	9.6 .9	6.1 3.2	10.3 4.1	5.9 5.2
1996 1997	8 .1	1.6 1.4	2 1.2	1.1 2	.7 .9	1.1 .6	.3 .5	.6 1.6	.7 .8	1 .6	.8 1.1	.9 .4	2.0 9.3	9.5 7.6	7.8 10.8	5.7 10.9	4.8
1998	.1	.1	1	2	.6	7	5	2.5	4	1.0	.1	.5	6.1	2.3	3.2	7.6	6.6
1999	.3	.7	.0	.4	.9	4	.5	.6	3	1.5	.7	.7	4.7	4.4	3.7	9.0	5.0
2000	.2	.3	.7	.6	2	.2	.0	6	.5	4	3	6	5.3	4.4	8	-2.9	4.2
2001	6	6	3	3	8	7	3	6	2	6	3	.3	-6.4	-5.5	-6.0	-4.2	-4.1
2002	.5	1	.7	.2	.6	1.2	5	.4	.1	4	.5	4	3.3	5.9	3.1	3	.3
2003 2004	.5 .0	.2 .7	.2 2	9 .4	.0 .7	.4 7	.1 .9	4 .6	.8 .0	1 1.0	1.0 1	2 .6	2.4 2.5	-2.4 3.0	1.5 4.2	3.7 5.5	1.3 2.8
2004	.0	.8	4	.4	.4	.2	1	.0	-1.0	1.5	.8	.0	6.0	2.3	1	5.7	4.0
2006	0	2			4	2	2			4		1.7	2.0	1.1	7	1.0	2.5
2006 2007	.8 5	2 .4	1 .7	.6 .7	4 1	.3 .3	2 .1	.4 4	.1 .5	4 4	.1 .5	1.5 .2	3.9 4.2	1.1 5.7	.7 1.0	1.2 1.0	2.5 2.7
2008	4	6	3	-1.1	5	5	-1.1	-1.3	-3.4	6	-2.2	-3.4	-2.6	-7.8	-13.4	-21.5	-4.7
2009	-2.9	2	-1.9	8	-1.1	3	1.2	1.1	.8	.1	1.1	.0	-23.7	-11.1	6.6	7.3	-13.6
2010	1.0	.0	1.3	.9	1.4	.0	.7	.1	.1	.1	.2	.6	7.3	11.3	5.2	1.8	6.1
2011	.2	.0	.7	7	.3	.1	.7	.4	.4	.6	.0	1.0	3.4	4	5.0	5.2	3.4
2012 2013	1.0 1	.6 .6	5 2	.6 3	3 .3	.3 .3	.2 4	7 .5	.1	4	1.4	.9	8.1 4.9	1.6 1	5 1.2	2.4	3.9
2013	1	.0	2	3	.5	.5	4	.5	.1				4.9	1	1.2		
IP (2007=100)																	
2011 2012	89.3 93.3	89.3 93.9	89.9 93.4	89.3 93.9	89.5 93.7	89.6 94.0	90.2 94.2	90.6 93.5	90.9 93.6	91.4 93.2	91.4 94.5	92.3 95.3	89.5 93.5	89.5 93.9	90.6 93.8	91.7 94.3	90.3 93.9
2012	95.2	95.7	95.4 95.5	95.9 95.2	95.4	94.0 95.7	94.2 95.4	95.9 95.9	95.0 96.0	93.2	94.5	95.5	95.5	95.5 95.5	95.8 95.8	74.5	, ,,,,
Capacity (percent of 2007 output)	121.7	121.7	121.7	121.7	121.8	121.9	122.0	122.1	122.3	122.5	122.6	100.0	121.7	121.8	122.1	122.6	122.1
2011 2012	121.7	121.7	121.7	121.7	121.8	121.9	122.0	122.1	122.5	122.5	122.6	122.8 124.8	121.7	121.8	122.1	122.6	122.1 123.9
2013	124.9	125.1	125.2	125.4	125.6	125.7	125.9	126.0	126.2				125.1	125.6	126.0		
Utilization																	
(percent)																	
1991 1992	78.5 78.2	77.9 78.8	77.3 79.4	77.4 79.6	77.8 79.9	78.6 79.9	78.7 80.4	78.8 79.8	79.5 79.7	79.3 80.0	79.0 80.1	78.8 79.8	77.9 78.8	77.9 79.8	79.0 80.0	79.1 80.0	78.5 79.6
1992	80.4	80.4	80.1	80.4	80.2	80.0	80.4	79.8	80.2	80.8	81.0	81.2	80.3	80.2	80.0	81.0	80.4
1994	81.2	81.1	82.0	82.4	82.7	82.7	82.7	83.1	83.2	83.7	84.0	84.6	81.4	82.6	83.0	84.1	82.8
1995	84.5	84.0	83.8	83.4	83.1	83.2	82.3	82.9	83.2	82.8	82.4	82.3	84.1	83.2	82.8	82.5	83.2
1996	81.3	82.2	81.6	82.0	82.2	82.6	82.4	82.5	82.6	82.1	82.3	82.5	81.7	82.3	82.5	82.3	82.2
1997	82.1	82.8	83.3	82.6	82.8	82.8	82.7	83.4	83.6	83.5	83.8	83.5	82.7	82.7	83.2	83.6	83.1
1998 1999	83.6 80.6	83.0 80.8	82.3 80.3	82.1 80.3	82.0 80.6	80.8 80.0	80.0 80.1	81.5 80.2	80.7 79.6	81.1 80.5	80.7 80.6	80.7 80.9	83.0 80.6	81.7 80.3	80.7 80.0	80.8 80.7	81.5 80.4
2000	80.0	80.8	80.3	80.3	80.0	80.0	79.9	79.1	79.3	78.6	78.1	77.4	80.0	80.5	79.5	78.0	79.7
2001 2002	76.6 71.9	75.9 71.8	75.5 72.2	75.1 72.3	74.3 72.8	73.6 73.6	73.2 73.2	72.6 73.5	72.3 73.6	71.8 73.3	71.4 73.6	71.6 73.3	76.0 72.0	74.3 72.9	72.7 73.4	71.6 73.4	73.6 72.9
2002	73.7	73.9	74.0	73.3	73.4	73.7	73.8	73.5	74.1	74.1	74.8	74.7	73.9	73.5	73.8	74.6	73.9
2004	74.8	75.3	75.2	75.6	76.1	75.6	76.3	76.7	76.6	77.4	77.2	77.6	75.1	75.8	76.5	77.4	76.2
2005	78.0	78.5	78.0	78.1	78.2	78.2	78.0	78.0	77.0	78.0	78.5	78.4	78.2	78.2	77.7	78.3	78.1
2006	78.9	78.6	78.5	78.8	78.4	78.5	78.2	78.4	78.4	77.9	77.8	78.8	78.7	78.6	78.3	78.1	78.4
2007	78.2	78.3	78.7	79.1	78.8	78.9	78.8	78.3	78.6	78.2	78.5	78.5	78.4	78.9	78.6	78.4	78.6
2008 2009	78.1 66.1	77.7 66.1	77.5 65.0	76.6 64.6	76.3 64.0	76.0 64.0	75.3 64.8	74.4 65.7	72.0 66.3	71.6 66.5	70.2 67.4	67.9 67.6	77.8 65.7	76.3 64.2	73.9 65.6	69.9 67.2	74.5 65.7
2010	68.4	68.5	69.5	70.2	71.4	71.5	72.1	72.3	72.5	72.6	72.8	73.3	68.8	71.0	72.3	72.9	71.3
2011	73.4	73.4	73.9	73.4	73.5	73.5	74.0	74.2	74.3	74.7	74.5	75.2	73.6	73.5	74.2	74.8	74.0
2011	75.8	76.2	75.7	76.1	75.8	75.9	76.0	75.4	75.3	74.7	75.8	76.4	75.9	75.9	75.5	74.8	75.8
2013	76.2	76.5	76.3	75.9	76.0	76.2	75.8	76.1	76.1				76.3	76.0	76.0		
	over page																

Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing¹ Seasonally adjusted New June July Aug Sept. Oct. Nov. Dec. Q1 Q2

 I. Refer to note on cover page.

 2. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Year																	-
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP $(percent change)^2$																	
1991	4	8	6	.2	1.0	1.0	.0	.1	.9	2	2	5	-8.0	2.0	5.4	.4	-2.0
1992	8	.8	.7	.6	.3	1	.8	6	.1	.6	.3	.0	-1.9	6.1	1.8	3.0	1.9
1993	.5	.3	1	.3	4	.2	.3	1	.4	.7	.3	.5	3.2	.2	1.4	5.1	2.5
1994	.4	.0	.9	.3	.4	.6	.0	.4	.1	.6	.4	.9	4.5	5.4	3.2	5.7	4.0
1995	.1	2	1	3	.1	.2	5	1.1	.1	4	.1	.1	2.9	-1.2	1.5	.2	2.5
1996	-1.0	1.4	3	.8	.5	.7	5	.4	.3	3	.8	.5	4	6.5	2.1	3.0	1.7
1997	1	.9	.5	3	.3	.2	.4	1.0	.7	.6	.6	.1	5.1	2.3	6.3	7.7	4.2
1998	.2	.0	1	.2	.6	9	8	2.0	7	.6	4	.1	1.9	.8	3	2.3	3.0
1999	.2	.2	1	1	.6	5	.3	.3	4	1.2	.2	.5	.7	.3	1.1	5.5	1.1
2000	3	.0	.1	.4	1	1	5	4	.4	6	2	5	.5	1.5	-3.0	-2.7	1.0
		10									.2					217	1.0
2001	7	5	3	2	6	5	3	2	4	5	5	1	-5.9	-4.4	-4.3	-4.5	-4.0
2002	.7	1	.8	.4	.5	.9	4	.1	.0	4	.5	6	2.8	6.2	1.7	8	.3
2003	.6	.2	3	9	1	1	.2	2	.6	1	.7	1	1.7	-4.7	.8	2.5	.2
2004	.2	.6	6	.5	.8	8	.8	.1	1	1.0	.2	.7	2.2	2.0	2.0	5.3	1.7
2005	.3	.6	1	.0	.1	.4	3	.0	-2.2	1.2	1.0	.5	4.8	1.3	-2.9	2.1	2.5
2006	.1	.0	.2	.3	2	.3	.0	.1	2	1	2	1.0	3.4	1.8	.8	.0	1.4
2007	5	1.1	1	.6	.1	.1	.0	.1	.3	7	.4	1	3.1	3.9	1.1	8	1.8
2008	4	3	4	9	5	2	4	-1.6	-4.3	1.0	-1.0	-2.7	-2.6	-6.5	-12.3	-14.9	-4.2
2009	-2.3	7	-1.7	-1.0	-1.1	4	.9	1.1	.6	.3	.4	.4	-19.6	-11.8	4.8	6.1	-11.3
2010	1.0	.2	.7	.3	1.6	.2	.6	.2	.2	4	.2	.9	7.2	7.9	5.9	.9	5.0
2011	2	5	1.1	6	.3	.1	.6	.5	.1	.6	.2	.6	1.9	1.0	4.8	4.7	2.9
2012	.7	.5	6	.8	.3	.0	.5	7	.1	2	1.4	.1	5.4	2.9	.5	2.2	3.6
2013	.0	.7	.3	4	.1	.2	1	.4	.6				4.3	.7	2.1		
IP (2007=100)																	
2011	90.8	90.4	91.4	90.8	91.1	91.3	91.8	92.3	92.4	92.9	93.1	93.6	90.8	91.1	92.1	93.2	91.8
2011	90.8	90.4 94.8	91.4 94.2	90.8 95.0	91.1 95.2	91.3	91.8 95.7	92.3 95.0	92.4 95.1	92.9 94.9	95.1 96.2	93.6 96.3	90.8	91.1 95.1	92.1 95.2	93.2 95.8	91.8
2012	96.3	96.9	94.2 97.2	95.0 96.8	95.2 96.9	93.2 97.1	93.7 97.0	93.0 97.4	93.1 98.0	74.7	90.2	90.5	96.8	97.0	97.5	95.8	95.1
2015	70.5	90.9	91.2	20.0	70.7	27.1								2710			
Capacity (percent of 2007 output)										120.4	120 6	120.9	110.9			120 6	120.1
Capacity (percent of 2007 output) 2011	119.8	119.8	119.7	119.7	119.8	119.9	120.0	120.1	120.2	120.4	120.6	120.8	119.8	119.8	120.1	120.6	120.1
Capacity (percent of 2007 output) 2011 2012										120.4 123.0	120.6 123.2	120.8 123.3	119.8 121.2 123.6			120.6 123.2	120.1 122.2
Capacity (percent of 2007 output) 2011 2012 2013 Utilization	119.8 121.0	119.8 121.2	119.7 121.5	119.7 121.7	119.8 121.9	119.9 122.1	120.0 122.4	120.1 122.6	120.2 122.8				121.2	119.8 121.9	120.1 122.6		
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent)	119.8 121.0 123.5	119.8 121.2 123.6	119.7 121.5 123.8	119.7 121.7 123.9	119.8 121.9 124.1	119.9 122.1 124.2	120.0 122.4 124.4	120.1 122.6 124.6	120.2 122.8 124.7	123.0	123.2	123.3	121.2 123.6	119.8 121.9 124.1	120.1 122.6 124.6	123.2	122.2
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991	119.8 121.0 123.5 80.2	119.8 121.2 123.6 79.5	119.7 121.5 123.8 78.9	119.7 121.7 123.9 79.0	119.8 121.9 124.1 79.7	119.9 122.1 124.2 80.4	120.0 122.4 124.4 80.3	120.1 122.6 124.6 80.2	120.2 122.8 124.7 80.9	123.0 80.6	123.2 80.4	123.3 79.9	121.2 123.6 79.6	119.8 121.9 124.1 79.7	120.1 122.6 124.6 80.5	123.2 80.3	80.0
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992	119.8 121.0 123.5 80.2 79.2	119.8 121.2 123.6 79.5 79.7	119.7 121.5 123.8 78.9 80.2	119.7 121.7 123.9 79.0 80.6	119.8 121.9 124.1 79.7 80.8	119.9 122.1 124.2 80.4 80.6	120.0 122.4 124.4 80.3 81.1	120.1 122.6 124.6 80.2 80.6	120.2 122.8 124.7 80.9 80.6	123.0 80.6 81.0	123.2 80.4 81.2	123.3 79.9 81.1	121.2 123.6 79.6 79.7	119.8 121.9 124.1 79.7 80.6	120.1 122.6 124.6 80.5 80.8	123.2 80.3 81.1	122.2 80.0 80.6
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992	119.8 121.0 123.5 80.2 79.2 81.5	119.8 121.2 123.6 79.5 79.7 81.6	119.7 121.5 123.8 78.9 80.2 81.5	119.7 121.7 123.9 79.0 80.6 81.6	119.8 121.9 124.1 79.7 80.8 81.2	119.9 122.1 124.2 80.4 80.6 81.2	120.0 122.4 124.4 80.3 81.1 81.4	120.1 122.6 124.6 80.2 80.6 81.2	120.2 122.8 124.7 80.9 80.6 81.4	123.0 80.6 81.0 81.9	80.4 81.2 82.1	123.3 79.9 81.1 82.3	121.2 123.6 79.6 79.7 81.5	119.8 121.9 124.1 79.7 80.6 81.3	120.1 122.6 124.6 80.5 80.8 81.3	80.3 81.1 82.1	80.0 80.6 81.6
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991	119.8 121.0 123.5 80.2 79.2	119.8 121.2 123.6 79.5 79.7	119.7 121.5 123.8 78.9 80.2	119.7 121.7 123.9 79.0 80.6	119.8 121.9 124.1 79.7 80.8	119.9 122.1 124.2 80.4 80.6	120.0 122.4 124.4 80.3 81.1	120.1 122.6 124.6 80.2 80.6	120.2 122.8 124.7 80.9 80.6	123.0 80.6 81.0	123.2 80.4 81.2	123.3 79.9 81.1	121.2 123.6 79.6 79.7	119.8 121.9 124.1 79.7 80.6	120.1 122.6 124.6 80.5 80.8	123.2 80.3 81.1	122.2 80.0 80.6
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9	80.6 81.0 81.9 84.1 83.4	80.4 81.2 82.1 84.3 83.3	79.9 81.1 82.3 84.9 83.3	121.2 123.6 79.6 79.7 81.5 82.7 84.6	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7	80.3 81.1 82.1 84.5 83.3	80.0 80.6 81.6 83.6 83.9
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8	80.6 81.0 81.9 84.1 83.4 83.3	80.4 81.2 82.1 84.3 83.3 83.8	123.3 79.9 81.1 82.3 84.9 83.3 84.0	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.6	80.3 81.1 82.1 84.5 83.3 83.7	80.0 80.6 81.6 83.6 83.9 83.5
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5	80.6 81.0 81.9 84.1 83.4 83.3 84.7	80.4 81.2 82.1 84.3 83.3 83.8 84.9	79.9 81.1 82.3 84.9 83.3 84.0 84.7	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.6 84.1	80.3 81.1 82.1 84.5 83.3 83.7 84.7	80.0 80.6 81.6 83.6 83.9 83.5 84.2
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.4 83.8 83.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.8	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 83.8 84.1 83.7 82.8	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.7 84.2 83.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4	80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6	80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1	79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.6 84.1 82.5	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5	80.6 81.0 81.9 84.1 83.4 83.3 84.7	80.4 81.2 82.1 84.3 83.3 83.8 84.9	79.9 81.1 82.3 84.9 83.3 84.0 84.7	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.6 84.1	80.3 81.1 82.1 84.5 83.3 83.7 84.7	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 81.8 81.4	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.8 81.5 81.4	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.7 84.2 83.2 81.1 80.3	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6	123.0 80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6 81.5 80.0	80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8	79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 81.9 79.3	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.8 83.8 81.5 81.4 77.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6	80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6 81.5 80.0 75.2	80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7	79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.8 81.5 81.4 77.1 76.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.6 76.8	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.0 76.6	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6	123.0 80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6 81.5 80.0 75.2 76.4	123.2 80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8	79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 81.9 79.3 74.6 76.4	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.8 83.8 83.8 81.5 81.4 77.1 76.1 76.2	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 75.6 76.6 76.8	123.0 80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7	123.2 80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3	79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1	80.0 80.6 81.6 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.8 81.5 81.4 77.1 76.1 76.2 78.4	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.6 76.8 76.2 77.8	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 75.6 76.6 76.8 78.5	123.0 80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.2	123.2 80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5 78.5	123.2 80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5	80.0 80.6 81.6 83.5 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.8 83.8 83.8 81.5 81.4 77.1 76.1 76.2	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 75.6 76.6 76.8	123.0 80.6 81.0 81.9 84.1 83.4 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7	123.2 80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3	79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1	80.0 80.6 81.6 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2001 2002 2003 2004 2005 2006	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.8 83.7 83.8 83.7 83.8 81.5 81.4 77.1 76.1 76.2 78.4 80.5 80.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.8 78.5 78.5 78.5	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.3 79.7	123.2 80.4 81.2 82.1 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.2	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5 78.5 79.8 80.1	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.8 83.7 83.8 83.8 83.8 81.5 81.4 77.1 76.1 76.1 76.2 78.4 80.5 80.1 80.6	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.6 76.8 78.5 78.5 79.9 81.1	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.3 79.7 80.6	123.2 80.4 81.2 82.1 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.2 80.1	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5 76.5 76.5 78.5 79.8 80.1 80.9	123.2 80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1 80.6
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2004 2005 2006 2007 2008	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.8 83.8 83.8 83.8 83.8 81.5 81.4 77.1 76.1 76.2 78.4 80.5 80.1 80.6 79.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.6 76.5 78.5 78.5 79.9 81.1 73.8	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.2 79.3 79.7 80.6 74.5	123.2 80.4 81.2 82.1 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.1 80.5	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7 79.2	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83	123.2 80.3 81.1 82.1 83.3 83.7 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3	80.0 80.0 80.6 81.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1 80.6 77.4
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1997 1998 1999 2000 2001 2002 2001 2002 2003 2004 2005 2006 2007 2008 2009	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7 70.0	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5 69.5	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5 67.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.7 83.8 81.5 81.4 77.1 76.1 76.2 78.4 80.5 80.1 80.6 79.1 66.9	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9 66.7	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6 67.4	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2 68.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.8 78.5 78.5 78.5 79.9 81.1 73.8 68.8	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.2 79.3 79.7 80.6 74.5 69.1	123.2 80.4 81.2 82.1 84.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7 69.6	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7 70.0	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 75.2 77.0 77.5 80.4 80.2 80.1 80.5 69.3	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7 79.2 67.1	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3 69.6	80.0 80.0 80.6 81.6 83.9 83.5 84.2 83.1 81.4 80.2 80.1 80.2 80.1 80.2 80.1 80.6 77.4 80.2
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2001 2002 2003 2004 2005 2006 2007 2008 2009	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.8 83.8 83.8 83.8 83.8 81.5 81.4 77.1 76.1 76.2 78.4 80.5 80.1 80.6 79.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.6 76.5 78.5 78.5 79.9 81.1 73.8	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.2 79.3 79.7 80.6 74.5	123.2 80.4 81.2 82.1 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.1 80.5	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7 79.2	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83	123.2 80.3 81.1 82.1 83.3 83.7 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3	80.0 80.0 80.6 81.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1 80.6 77.4
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7 70.0 70.9	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5 69.5 71.2	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5 67.6 67.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.8 81.5 81.4 77.1 76.1 76.1 76.1 76.4 80.5 80.1 80.6 79.1 66.9 73.6	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9 66.7 74.0	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6 67.4 74.5	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2 80.8 77.2 68.2 74.8	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.8 78.5 78.5 78.5 78.5 79.9 81.1 73.8 68.8 75.1	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.3 79.7 80.6 74.5 69.1 74.9	123.2 80.4 81.2 82.1 84.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7 69.6	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7 70.0	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 75.2 77.0 77.5 80.4 80.2 80.1 80.5 69.3	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 78.0 80.6 80.6 80.6 80.3 80.7 79.2 67.1 73.3	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5 76.5 78.5 79.8 80.1 80.9 76.6 68.1 74.8	123.2 80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3 69.6 75.3	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1 80.6 77.4 68.5 73.7
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1996 1997 1998 1999 2000 2001 2002 2001 2002 2003 2004 2005 2006 2007 2008 2009	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7 70.0	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5 69.5	119,7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2 80.2 80.2 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5 67.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.7 83.8 81.5 81.4 77.1 76.1 76.2 78.4 80.5 80.1 80.6 79.1 66.9	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9 66.7	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6 67.4	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2 68.2	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.8 78.5 78.5 78.5 79.9 81.1 73.8 68.8	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.2 79.3 79.7 80.6 74.5 69.1	123.2 80.4 81.2 82.1 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7 69.6 75.2	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7 70.0 75.9	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.2 80.1 80.5 69.3 71.3	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7 79.2 67.1	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83	80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3 69.6	80.0 80.6 81.6 83.6 83.9 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1 80.2 80.1 80.6 80.6 85.5
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2001 2002 2003 2004 2005 2006 2007	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.8 83.7 83.8 83.8 83.8 83.7 83.8 81.5 81.4 77.1 76.1 76.1 76.2 78.4 80.5 80.1 80.6	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.6 76.8 78.5 78.5 79.9 81.1	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.3 79.7 80.6	123.2 80.4 81.2 82.1 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.2 80.1	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.6 84.1 82.5 80.9 80.5 76.0 76.5 76.5 76.5 76.5 78.5 79.8 80.1 80.9	123.2 80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8	
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2003 2004 2005 2006 2007 2008 2009 2010 2011	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7 70.0 70.9 75.8	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5 69.5 71.2 75.5	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2 80.2 80.2 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5 67.6 72.3 75.8	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.7 83.8 83.7 83.8 81.5 81.4 77.1 76.1 76.1 80.6 79.1 66.9 73.6 76.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9 66.7 74.0 76.1	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6 67.4 74.5 76.5	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2 68.2 74.8 76.8	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.6 76.8 78.5 78.5 78.5 79.9 81.1 73.8 68.8 75.1 76.8	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.3 79.7 80.6 74.5 69.1 74.9 77.2	123.2 80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7 69.6 75.2 77.2	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7 70.0 75.9 77.5	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.2 80.1 80.5 69.3 71.3 75.9	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7 79.2 67.1 73.3 76.0	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83	123.2 80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3 69.6 75.3 77.3	80 80 80 81 83 83 83 84 83 81 80 76 76 76 76 78 80 80 80 80 77 68 73 76
Capacity (percent of 2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2003 2004 2005 2006 2007 2008 2009 2010 2011	119.8 121.0 123.5 80.2 79.2 81.5 82.6 84.9 82.3 83.7 84.5 81.8 81.5 78.7 75.1 76.9 77.4 80.2 80.3 79.6 80.7 70.0 70.9 75.8	119.8 121.2 123.6 79.5 79.7 81.6 82.5 84.6 83.3 84.2 84.2 84.2 81.8 81.4 78.2 74.9 77.1 77.8 80.6 80.2 80.4 80.5 69.5 71.2 75.5	119.7 121.5 123.8 78.9 80.2 81.5 83.1 84.3 82.9 84.3 83.8 81.5 81.4 77.9 75.5 76.9 77.4 80.5 80.2 80.2 80.2 80.2 80.2 80.2 80.2 80.2	119.7 121.7 123.9 79.0 80.6 81.6 83.2 83.9 83.4 83.8 83.6 81.2 81.6 77.7 75.7 76.3 77.8 80.5 80.4 80.6 79.5 67.6 72.3 75.8	119.8 121.9 124.1 79.7 80.8 81.2 83.4 83.8 83.7 83.8 83.7 83.8 83.7 83.8 83.7 83.8 81.5 81.4 77.1 76.1 76.1 80.6 79.1 66.9 73.6 76.1	119.9 122.1 124.2 80.4 80.6 81.2 83.8 83.8 84.1 83.7 82.8 80.9 81.2 76.6 76.8 76.2 77.8 80.8 80.3 80.7 78.9 66.7 74.0 76.1	120.0 122.4 124.4 80.3 81.1 81.4 83.6 83.2 83.5 83.7 81.9 81.0 80.7 76.3 76.5 76.4 78.4 80.5 80.2 80.7 78.6 67.4 74.5 76.5	120.1 122.6 124.6 80.2 80.6 81.2 83.8 84.0 83.7 84.2 83.2 81.1 80.3 76.0 76.6 76.3 78.5 80.4 80.2 80.8 77.2 68.2 74.8 76.8	120.2 122.8 124.7 80.9 80.6 81.4 83.7 83.9 83.8 84.5 82.4 80.7 80.6 75.6 76.6 76.6 76.6 76.6 76.8 78.5 78.5 78.5 79.9 81.1 73.8 68.8 75.1 76.8	123.0 80.6 81.0 81.9 84.1 83.3 84.7 82.6 81.5 80.0 75.2 76.4 76.7 79.3 79.7 80.6 74.5 69.1 74.9 77.2	123.2 80.4 81.2 82.1 84.3 83.3 83.8 84.9 82.1 81.5 79.8 74.7 76.8 77.3 79.4 80.0 79.4 81.0 73.7 69.6 75.2 77.2	123.3 79.9 81.1 82.3 84.9 83.3 84.0 84.7 81.9 79.3 74.6 76.4 77.2 79.9 80.4 80.1 81.0 71.7 70.0 75.9 77.5	121.2 123.6 79.6 79.7 81.5 82.7 84.6 82.8 84.1 84.2 81.7 81.4 78.2 75.2 77.0 77.5 80.4 80.2 80.1 80.5 69.3 71.3 75.9	119.8 121.9 124.1 79.7 80.6 81.3 83.5 83.9 83.7 83.8 83.4 81.2 81.4 77.1 76.2 76.2 78.0 80.6 80.3 80.7 79.2 67.1 73.3 76.0	120.1 122.6 124.6 80.5 80.8 81.3 83.7 83.7 83.7 83.7 83.7 83.7 83.7 83	123.2 80.3 81.1 82.1 84.5 83.3 83.7 84.7 82.2 81.6 79.7 74.8 76.5 77.1 79.5 79.9 79.7 80.8 73.3 69.6 75.3 77.3	122.2 80.0 83.6 83.5 83.5 84.2 83.1 81.4 80.8 76.5 76.1 76.7 78.4 80.2 80.1 80.6 77.4 68.5 73.7 76.5

Table 13 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry Excluding Selected High-Technology Industries¹ Seasonally adjusted

Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Seasonally adjusted	-																
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ³																	
1991	8	8	8	.3	.7	1.1	.3	.2	1.1	2	3	3	-9.6	1.3	7.1	1.1	-2.6
1992	9	.9	.9	.4	.5	.1	.8	5	1	.5	.3	2	-1.2	7.0	2.7	1.5	2.6
1993	1.1	.1	3	.5	1	2	.3	2	.5	.7	.3	.5	4.0	.6	.3	5.7	2.5
1994	.1	.1	1.1	.6	.5	.2	.2	.6	.1	.7	.6	.9	4.2	7.1	3.7	7.0	4.4
1995	.1	3	1	4	1	.3	8	.9	.5	4	1	.0	2.8	-2.3	.4	.6	2.5
1996	-1.2	1.3	5	1.0	.5	.8	1	.3	.4	4	.7	.7	-1.9	7.3	4.0	2.8	1.5
1997	2	1.1	.8	7	.5	.4	.2	1.3	.6	.5	.8	.1	6.2	2.8	6.9	8.1	4.9
1998	.5	.0	3	.3	.4	-1.1	9	2.4	8	.7	1	.2	3.2	2	5	4.0	3.4
1999	1	.5	4	1	.8	7	.0	.6	4	1.4	.4	.4	.8	.3	.2	6.7	1.4
2000	3	2	.3	.4	6	.0	4	8	.4	6	6	8	.3	.6	-3.8	-4.8	.7
2001	6	5	3	1	7	6	1	6	2	7	2	.2	-7.0	-4.5	-4.6	-4.3	-4.8
2001	0	2	5	.1	.6	1.1	6	.3	2	5	2	6	3.4	5.5	2.4	-4.5	.4
2003	.4	.0	.1	-1.1	1	.2	1	5	.8	2	.9	3	.7	-4.0	.0	2.7	.0
2004	1	.7	2	.4	.8	8	.9	.5	2	1.0	1	.6	1.7	3.3	3.7	4.9	2.0
2005	.6	.7	5	.2	.3	.1	3	.1	-1.3	1.4	.8	.0	5.2	1.3	-1.9	4.3	3.1
2006	.8	3	1	.5	6	.2	2	.3	.0	5	.0	1.5	3.3	.0	1	.5	1.5
2008	.8 6	3	1	.5	0 0.	.2	2	.s 5	.0	5 6	.0	.0	3.3	4.5	1 1.0	-1.4	1.5
2008	5	8	5	-1.3	6	6	-1.0	-1.4	-3.5	4	-2.0	-3.2	-4.3	-9.3	-13.8	-20.5	-5.8
2009	-2.9	2	-2.1	9	-1.2	3	1.2	1.1	.7	.1	1.1	.0	-23.5	-12.3	6.5	6.6	-13.8
2010	.8	2	1.2	.8	1.4	.0	.7	.0	.0	.0	.0	.4	5.6	10.3	4.8	.8	5.1
2011	.0	.0	.8	8	.2	.0	.7	.3	.4	.6	1	1.0	2.4	4	4.8	5.1	2.8
2011	1.1	.0	5	8	3	.0	.7	6	.4	6	1.5	.9	8.2	1.5	2	2.1	3.9
2012	2	.6	3	4	.2	.3	5	.5	.2	.0	1.5	.,	5.2	6	.2	2.1	5.7
IP (2007=100)																	
2011	86.8	86.8	87.5	86.8	87.0	87.0	87.7	88.0	88.3	88.9	88.8	89.7	87.1	87.0	88.0	89.1	87.8
2012 2013	90.6 92.5	91.3 93.1	90.8 92.9	91.3 92.5	91.0 92.7	91.3 93.0	91.5 92.5	91.0 93.0	91.0 93.2	90.5	91.8	92.7	90.9 92.8	91.2 92.7	91.2 92.9	91.7	91.2
2015	12.5	75.1)2.)	12.5	12.1	15.0	12.5	25.0	15.2				12.0	12.1)2.)		
Capacity																	
(percent of																	
2007 output)	110.2	110.0	110.0	110.0	110.0	1107	1107	1107	110.0	110.0	110.0	110.0	110.0	110.0	1107	110.0	110.0
2007 output) 2011	119.2	119.0	118.9	118.8	118.8	118.7	118.7	118.7	118.8	118.8	118.9	119.0	119.0	118.8	118.7	118.9	118.9
2007 output) 2011 2012	119.1	119.3	119.4	119.6	119.7	119.9	120.1	120.2	120.4	118.8 120.6	118.9 120.7	119.0 120.9	119.3	119.7	120.2	118.9 120.7	118.9 120.0
2007 output) 2011																	
2007 output) 2011 2012 2013 Utilization	119.1	119.3	119.4	119.6	119.7	119.9	120.1	120.2	120.4				119.3	119.7	120.2		
2007 output) 2011 2012 2013 Utilization (percent)	119.1 121.0	119.3 121.1	119.4 121.2	119.6 121.4	119.7 121.5	119.9 121.6	120.1 121.7	120.2 121.8	120.4 121.9	120.6	120.7	120.9	119.3 121.1	119.7 121.5	120.2 121.8	120.7	120.0
2007 output) 2011 2012 2013 Utilization (percent) 1991	119.1 121.0 78.8	119.3 121.1 78.1	119.4 121.2 77.4	119.6 121.4 77.5	119.7 121.5 77.9	119.9 121.6 78.7	120.1 121.7 78.8	120.2 121.8 78.9	120.4 121.9 79.7	120.6 79.4	120.7 79.1	120.9 78.7	119.3 121.1 78.1	119.7 121.5 78.0	120.2 121.8 79.1	120.7 79.1	78.6
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992	119.1 121.0 78.8 78.0	119.3 121.1 78.1 78.6	119.4 121.2 77.4 79.2	119.6 121.4 77.5 79.5	119.7 121.5 77.9 79.8	119.9 121.6 78.7 79.8	120.1 121.7 78.8 80.3	120.2 121.8 78.9 79.8	120.4 121.9 79.7 79.6	120.6 79.4 79.9	120.7 79.1 80.1	120.9 78.7 79.8	119.3 121.1 78.1 78.6	119.7 121.5 78.0 79.7	120.2 121.8 79.1 79.9	120.7 79.1 79.9	120.0 78.6 79.5
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993	119.1 121.0 78.8	119.3 121.1 78.1	119.4 121.2 77.4	119.6 121.4 77.5	119.7 121.5 77.9	119.9 121.6 78.7	120.1 121.7 78.8	120.2 121.8 78.9	120.4 121.9 79.7	120.6 79.4	120.7 79.1	120.9 78.7 79.8 81.2	119.3 121.1 78.1	119.7 121.5 78.0	120.2 121.8 79.1	120.7 79.1	120.0 78.6 79.5 80.4
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992	119.1 121.0 78.8 78.0 80.6	119.3 121.1 78.1 78.6 80.6	119.4 121.2 77.4 79.2 80.2	119.6 121.4 77.5 79.5 80.5	119.7 121.5 77.9 79.8 80.3	119.9 121.6 78.7 79.8 80.1	120.1 121.7 78.8 80.3 80.2	120.2 121.8 78.9 79.8 79.9	120.4 121.9 79.7 79.6 80.2	120.6 79.4 79.9 80.7	120.7 79.1 80.1 80.9	120.9 78.7 79.8	119.3 121.1 78.1 78.6 80.4	119.7 121.5 78.0 79.7 80.3	120.2 121.8 79.1 79.9 80.1	120.7 79.1 79.9 81.0	120.0 78.6 79.5
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995	119.1 121.0 78.8 78.0 80.6 81.2 84.4	119.3 121.1 78.1 78.6 80.6 81.2 84.0	119.4 121.2 77.4 79.2 80.2 82.1 83.7	119.6 121.4 77.5 79.5 80.5 82.4 83.2	119.7 121.5 77.9 79.8 80.3 82.7 82.9	119.9 121.6 78.7 79.8 80.1 82.7 83.0	120.1 121.7 78.8 80.3 80.2 82.8 82.2	120.2 121.8 78.9 79.8 79.9 83.1 82.7	120.4 121.9 79.7 79.6 80.2 83.1 83.0	79.4 79.9 80.7 83.5 82.4	79.1 80.1 80.9 83.9 82.2	78.7 79.8 81.2 84.5 82.0	119.3 121.1 78.1 78.6 80.4 81.5 84.0	119.7 121.5 78.0 79.7 80.3 82.6 83.1	120.2 121.8 79.1 79.9 80.1 83.0 82.6	79.1 79.9 81.0 84.0 82.2	78.6 79.5 80.4 82.8 83.0
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6	79.4 79.9 80.7 83.5 82.4 82.1	79.1 80.1 80.9 83.9 82.2 82.4	78.7 79.8 81.2 84.5 82.0 82.8	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5	79.1 79.9 81.0 84.0 82.2 82.4	78.6 79.5 80.4 82.8 83.0 82.1
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.4 82.5	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3	79.4 79.9 80.7 83.5 82.4 82.1 83.4	79.1 80.1 80.9 83.9 82.2 82.4 83.7	78.7 79.8 81.2 84.5 82.0 82.8 83.5	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6	120.2 121.8 79.1 79.9 80.1 82.6 82.6 82.5 83.0	79.1 79.9 81.0 82.2 82.4 83.5	78.6 79.5 80.4 82.8 83.0 82.1 83.0
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.4 82.5 80.2	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9	78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.4 82.5	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3	79.4 79.9 80.7 83.5 82.4 82.1 83.4	79.1 80.1 80.9 83.9 82.2 82.4 83.7	78.7 79.8 81.2 84.5 82.0 82.8 83.5	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6	120.2 121.8 79.1 79.9 80.1 82.6 82.6 82.5 83.0	79.1 79.9 81.0 82.2 82.4 83.5	78.6 79.5 80.4 82.8 83.0 82.1 83.0
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3	78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9 73.9	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5	78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9	78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7 74.5	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.5 74.2	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.2	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.4	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6 74.4	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3	78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7 74.5 75.1	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.5 74.2 74.3	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9	78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7 74.5	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.5 74.2	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2001 2002 2003 2004	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 75.7	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0 75.6	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.5 74.1 74.2 76.6	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.4 76.0	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.2 82.4 82.5 80.2 79.3 78.9 73.9 73.9 74.6 74.4 76.7	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6 77.8	120.7 79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3 77.7	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7 74.5 75.1 78.1	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.5 74.2 74.3 76.2	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4 76.9	120.7 79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1 78.5 79.0	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 75.7 79.0 78.6	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0 75.6 78.5 78.4	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0 78.6 78.7	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.5 74.1 74.2 76.6 78.7 78.1	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.4 76.0 78.7 78.2	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6 74.4 76.7 78.4 77.9	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1 78.3 78.1	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0 77.2 78.0	79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6 77.8 78.1 77.5	79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3 77.7 78.6 77.4	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 75.1 78.1 78.5 78.5	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5 78.7 78.7	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.2 74.3 76.2 78.7 78.3	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4 76.9 78.0	79.1 79.9 81.0 84.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8 78.4 77.8	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6 78.4 78.2
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	119.1 121.0 78.8 78.0 80.6 81.2 84.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1 78.5 79.0 78.0	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 75.7 79.0 78.6 78.2	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0 75.6 78.5 78.4 78.5	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0 78.6 78.7 78.9	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.2 76.6 78.7 78.1 78.8	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.4 79.3 74.0 75.0 74.4 76.0 78.7 78.2 79.1	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6 74.4 76.7 78.4 77.9 79.1	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1 78.3 78.1 78.7	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0 77.2 78.0 79.0	120.6 79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6 77.8 78.1 77.5 78.4	120.7 79.1 80.1 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3 77.7 78.6 77.4 78.6	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 75.1 78.7 78.7 78.7 78.5 78.5 78.6	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5 78.7 78.7 78.7	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.6 82.1 79.8 79.5 74.5 74.2 74.3 76.2 78.7 78.3 78.9	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4 73.5 74.8 74.4 76.9 78.0 78.0 78.9	120.7 79.1 79.9 81.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8 78.4 77.8 78.6	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6 78.4 78.2 78.7
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1 78.5 79.0 78.0 78.0 78.0 78.0	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 75.7 79.0 78.6 78.2 77.6	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0 75.6 78.5 78.4 78.5 77.3	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0 78.6 78.6 78.7 78.9 76.3	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.5 74.1 74.2 76.6 78.7 78.1 78.8 75.9	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.4 76.0 78.7 78.2 79.1 75.5	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6 74.4 76.7 78.4 77.9 79.1 74.8	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1 78.3 78.1 78.7 73.9	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0 77.2 78.0 79.0 71.4	120.6 79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6 74.6 78.1 77.5 78.4 71.1	120.7 79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3 77.7 78.6 77.4 78.6 69.8	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7 74.5 75.1 78.1 78.5 78.6 67.7	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5 78.7 78.7 78.7 78.2 77.7	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.5 74.5 74.2 74.3 76.2 78.7 78.3 78.9 75.9	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4 73.5 74.8 74.4 76.9 78.0 78.0 78.9 73.3	120.7 79.1 79.9 81.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8 78.4 77.8 78.6 69.5	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6 78.4 78.2 78.7 74.1
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1 78.5 79.0 78.0 78.0 78.2 65.8	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 74.9 75.7 79.0 78.6 78.6 78.6 78.6 78.6 5.8	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.6 75.6 75.6 78.5 78.4 78.5 77.3 64.6	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0 78.6 78.7 78.9 76.3 64.2	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.5 74.1 74.5 74.1 74.6 6 78.7 78.1 78.8 75.9 63.6	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.0 75.0 74.0 75.0 74.0 75.5 63.5	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.2 79.3 78.9 73.9 74.6 74.4 76.7 78.4 77.9 79.1 74.8 64.5	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1 78.3 78.1 78.7 73.9 65.4	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0 77.2 78.0 79.0 71.4 66.0	120.6 79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 77.8 78.1 77.5 78.4 71.1 66.3	120.7 79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.5 74.9 75.3 77.7 78.6 77.4 78.6 69.8 67.1	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 76.5 72.7 74.5 75.1 78.5 78.6 67.7 67.3	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5 78.7 78.7 78.7 78.7 78.7 78.2 77.7 65.4	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.5 74.5 74.2 78.7 78.3 78.9 75.9 63.8	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.8 74.4 73.5 74.8 74.9 78.0 78.0 78.0 78.0 78.3 65.3	120.7 79.1 79.9 81.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8 78.4 77.8 78.6 69.5 66.9	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6 78.4 78.2 78.7 74.1 65.3
2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1 78.5 79.0 78.0 78.0 78.0 78.0	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 75.7 79.0 78.6 78.2 77.6	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0 75.6 78.5 78.4 78.5 77.3	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0 78.6 78.6 78.7 78.9 76.3	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.5 74.1 74.2 76.6 78.7 78.1 78.8 75.9	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.4 76.0 78.7 78.2 79.1 75.5	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6 74.4 76.7 78.4 77.9 79.1 74.8	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1 78.3 78.1 78.7 73.9	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0 77.2 78.0 79.0 71.4	120.6 79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6 74.6 78.1 77.5 78.4 71.1	120.7 79.1 80.1 80.9 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3 77.7 78.6 77.4 78.6 69.8	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 72.7 74.5 75.1 78.1 78.5 78.6 67.7	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5 78.7 78.7 78.7 78.2 77.7	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.3 82.6 82.1 79.8 79.5 74.5 74.5 74.5 74.2 74.3 76.2 78.7 78.3 78.9 75.9	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4 73.5 74.8 74.4 76.9 78.0 78.0 78.9 73.3	120.7 79.1 79.9 81.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8 78.4 77.8 78.6 69.5	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6 78.4 78.2 78.7 74.1
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2007 output) 2011 2012 2013 Utilization (percent) 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	119.1 121.0 78.8 78.0 80.6 81.2 84.4 80.9 82.4 83.6 80.5 79.9 76.0 73.1 74.9 75.1 78.0 72.9 76.1	119.3 121.1 78.1 78.6 80.6 81.2 84.0 81.8 83.0 83.2 80.6 79.6 75.5 73.0 74.9 75.7 79.0 78.6 78.2 77.6 65.8 68.0 73.0 76.5	119.4 121.2 77.4 79.2 80.2 82.1 83.7 81.3 83.4 82.6 80.1 79.8 75.2 73.5 75.0 75.6 78.5 75.0 75.6 78.5 78.4 78.5 77.3 64.6 69.0 73.6 76.0	119.6 121.4 77.5 79.5 80.5 82.4 83.2 81.9 82.5 82.5 79.8 79.9 75.1 73.6 74.2 76.0 78.6 78.7 78.9 76.3 64.2 69.7 73.1 76.3	119.7 121.5 77.9 79.8 80.3 82.7 82.9 82.2 82.6 82.5 80.2 79.4 74.5 74.1 74.2 76.6 78.7 78.1 78.8 75.9 63.6 70.9 73.3 76.0	119.9 121.6 78.7 79.8 80.1 82.7 83.0 82.7 82.6 81.2 79.4 79.3 74.0 75.0 74.4 76.0 78.7 78.2 79.1 75.5 63.5 71.1 73.3 76.2	120.1 121.7 78.8 80.3 80.2 82.8 82.2 82.4 82.5 80.2 79.3 78.9 73.9 74.6 74.4 76.7 78.4 77.9 79.1 74.8 64.5 71.7 73.9 76.2	120.2 121.8 78.9 79.8 79.9 83.1 82.7 82.5 83.2 81.8 79.6 78.1 73.4 74.8 74.1 77.1 78.3 78.1 78.7 73.9 65.4 71.9 74.1 75.7	120.4 121.9 79.7 79.6 80.2 83.1 83.0 82.6 83.3 80.9 79.1 78.3 73.2 74.9 74.7 77.0 77.2 78.0 79.0 71.4 66.0 72.0 74.4 75.6	120.6 79.4 79.9 80.7 83.5 82.4 82.1 83.4 81.3 80.0 77.8 72.7 74.6 74.6 77.8 78.1 77.5 78.4 71.1 66.3 72.2	120.7 79.1 80.1 83.9 82.2 82.4 83.7 80.9 80.1 77.3 72.5 74.9 75.3 77.7 78.6 77.4 78.6 67.1 72.3	120.9 78.7 79.8 81.2 84.5 82.0 82.8 83.5 80.8 80.3 76.5 75.1 78.5 78.6 67.7 67.3 72.7	119.3 121.1 78.1 78.6 80.4 81.5 84.0 81.3 82.9 83.1 80.4 79.8 75.6 73.2 74.9 75.5 78.7 78.1 76.2	119.7 121.5 78.0 79.7 80.3 82.6 83.1 82.6 82.1 79.8 79.5 74.5 74.2 74.3 76.2 78.3 78.9 75.9 63.8 70.6 73.2 76.2	120.2 121.8 79.1 79.9 80.1 83.0 82.6 82.5 83.0 81.0 79.3 78.4 73.5 74.8 74.4 76.9 78.0 78.0 78.0 78.0 78.9 73.3 65.3 71.9 74.1 75.8	120.7 79.1 79.9 81.0 82.2 82.4 83.5 81.0 80.1 77.2 72.6 74.7 75.0 77.8 78.4 77.8 78.6 69.5 66.9 72.4	120.0 78.6 79.5 80.4 82.8 83.0 82.1 83.0 81.8 79.9 78.7 74.1 74.2 74.6 76.6 78.4 78.2 78.7 74.1 65.3 70.8
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Table 14 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing' Excluding Selected High-Technology Industries² Seasonally adjusted

I. Refer to note on cover page.
 Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

EXPLANATORY NOTE

The **Industrial Production and Capacity Utilization** statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. More detailed descriptions of industrial production and capacity utilization are available on the Board's website at **www.federalreserve.gov/releases/G17**. In addition, files containing data shown in the release, more detailed series that were published in the G.17 prior to December 2000, and historical data are available from the Data Download Program on the Board's website. Instructions for searching for and downloading specific series are provided as well.

INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of all manufacturing, mining, and electric and gas utility establishments located in the United States, regardless of their ownership, but not those located in U.S. territories; the reference period for the index is 2007. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industriesnewspaper, periodical, book, and directory publishing plus logging-that have traditionally been considered to be manufacturing. For the period since 1997, the total IP index has been constructed from 312 individual series based on the 2007 NAICS codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries-for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's web site (www.federalreserve.gov/releases/G17/About.htm).

Source data. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are obtained from private trade associations and from government agencies; data of this type are used to estimate monthly IP wherever possible and appropriate. Production indexes for a few industries are derived by dividing estimated nominal output (calculated using unit production and unit values or sales) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include computers, communications equipment, and semiconductors. When suitable direct measures of product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the Annual Survey of Manufactures, prepared by the Bureau of the Census; the Minerals Yearbook, prepared by the United States Geological Survey of the Department of the Interior; and publications of the Department of Energy.

Aggregation Methodology and Weights. The aggregation method for the IP index is a version of the Fisher-ideal index formula. (For a detailed discussion of the aggregation method, see the *Federal Reserve Bulletins* of February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is shown below. An output index for month m is denoted by I_m^A for aggregate A and I_m for each of its components. The monthly price measure in the formula (p_m) is interpolated from an annual series of value added divided by the average annual IP index.

$$\frac{I_m^A}{I_{m-1}^A} = \sqrt{\frac{\sum I_m p_{m-1}}{\sum I_{m-1} p_{m-1}}} \times \frac{\sum I_m p_m}{\sum I_{m-1} p_m}$$

The IP proportions (typically shown in the first column of the relevant tables in the G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 6 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 6/10 percentage point (0.06 x 10% = 0.6%). To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/ipweightssa.txt).

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 67 percent of the source data increases to 81 percent for estimates in the second month that the estimate is published, 93 percent in the third month, 96 percent in the fourth month. Data availability by data type in early 2011 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2011)

	Mon	Month of estimate							
Type of data	1st	2nd	3rd	4th	5th	6th			
Physical product	27	41	53	55	58	58			
Production-worker hours	41	41	41	41	41	41			
IP data received	67	81	93	96	99	99			
IP data estimated	33	19	7	4	1	1			

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row of the table, in the first month, a physical product indicator is available for about half of the series (in terms of value added) that ultimately are based on physical product data (27 percent out of a total of 58 percent). Of the 27 percent, about two-thirds (19 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

Seasonal adjustment. Individual series are seasonally adjusted using Census X-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 2013; for other series, the factors were estimated with data through at least December 2012. Series are pre-adjusted for the effects of holidays or business cycles when appropriate. For the data since 1972, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the *level* of the total IP index, without regard to sign, between the first and the fourth estimates was

0.27 percent during the 1987-2010 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.21 percentage point during the 1987-2010 period. In most cases (about 85 percent), the direction of the change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

Rounding. The published percent changes are calculated from unrounded indexes, and may not be the same as percent changes calculated from the rounded indexes shown in the release.

CAPACITY UTILIZATION

Overview. The Federal Reserve Board constructs estimates of capacity and capacity utilization for industries in manufacturing, mining, and electric and gas utilities. For a given industry, the capacity utilization rate is equal to an output index (seasonally adjusted) divided by a capacity index. The Federal Reserve Board's capacity indexes attempt to capture the concept of sustainable *maximum output*—the greatest level of output a plant can maintain within the framework of a realistic work schedule, after factoring in normal downtime and assuming sufficient availability of inputs to operate the capital in place.

Coverage. The capacity indexes cover all facilities located in the United States, regardless of their ownership, but not those located in U.S. territories. Capacity indexes are constructed for 89 detailed industries (71 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit NAICS level. Estimates of capacity and utilization are available for a variety of groups, including durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries- newspaper, periodical, book, and directory publishing plus logging-that have traditionally been considered to be manufacturing. Also, special aggregates are available, such as high-technology industries and manufacturing excluding high-technology industries.

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (e.g., paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 25 percent of total industrial capacity. When physical product data are unavailable for manufacturing industries, capacity indexes are based on responses to the Bureau of the Census's Quarterly Survey of Plant Capacity (QSPC); these industries account for a bit less than 70 percent of total industry capacity. In the absence of utilization data for a few mining and petroleum series, capacity is based on trends through peaks in production (roughly 5 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the Board's web site (www.federalreserve.gov/releases/G17/CapNotes.htm).

Aggregation Methodology. Monthly capacity aggregates are calculated in three steps: (1) utilization aggregates are calculated on an annual basis through the most recent full year as capacity-weighted aggregates of individual utilization rates; (2) the annual aggregate capacity is derived from the corresponding production and utilization aggregates; (3) the monthly capacity aggregate is obtained by interpolating the annual capacity aggregate with a Fisher index of its constituent monthly capacity series. Utilization rates for the individual series and aggregates are calculated by dividing the pertinent monthly production index by the related capacity index.

Consistency. A major aim is that the Federal Reserve utilization rates be consistent over time so that, for example, a rate of 85 percent means about the same degree of tightness that it meant in the past. A

major task for the Federal Reserve in developing reasonable and consistent time series of capacity and utilization is dealing with inconsistencies between the movements of the industrial production index and the survey-based utilization rates. The McGraw-Hill/DRI Survey, now discontinued, was the primary source of manufacturing utilization rates for many years. This was a survey of large companies that reported, on average, higher utilization rates than those reported by establishments covered by the Census Bureau's annual Survey of Plant Capacity (the predecessor to the QSPC) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve roughly in line with rates formerly reported by McGraw-Hill. As a consequence, the rates reported by the Federal Reserve tend to be higher than the rates reported in the QSPC.

Perspective. Over the 1972–2012 period, the average total industry utilization rate is 80.2 percent; for manufacturing, the average factory operating rate has been 78.7 percent. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total industry and total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization are specific to each series and do not all occur in the same month.

REFERENCES AND RELEASE DATES

References. The release for the annual revision that was published on March 22, 2013 is available on the Board's website (www.federal reserve.gov/releases/g17/revisions/Current/DefaultRev.htm). A summary of the annual revision that incorporated back to 1972 production and capacity indexes reclassified according to the North American Industry Classification System is available in an article in the Federal Reserve Bulletin, vol. 89 (April 2003), pp. 151-176. A description of the aggregation methods for industrial production and capacity utilization is included in an article in the Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67-92. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at: www.federalreserve.gov/releases/g17/CapitalStockDocLatest.pdf.

Industrial Production-1986 Edition contains a more detailed description of the other methods used to compile the industrial production index, plus a history of its development, a glossary of terms, and a bibliography. The major revisions to the IP indexes and capacity utilization since 1990 have been described in the Federal Reserve Bulletin (April 1990, June 1990, June 1993, March 1994, January 1995, January 1996, February 1997, February 1998, January 1999, March 2000, March 2001, March 2002, April 2003, Winter 2004, Winter 2005, March 2006, May 2007, August 2008, August 2009) or in an on-line staff study (www.federalreserve.gov/releases/g17/articles/rev2010/industrial10.pdf).

Release Schedule

At 9:15 a.m. on

2013: January 16, February 15, March 15, April 16, May 15, June 14, July 16, August 15, September 16, October 28, November 15, and December 16.

2014: January 17, February 14, March 17, April 16, May 15, June 16, July 16, August 15, September 15, October 16, November 17, and December 15.